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ABSTRACT

To determine improvements needed in vocational programs for male students, a pretested questionnaire was administered to 1,856 boys in grades 9-12 in nine Nevada high schools. The study was further limited to students in vocational agriculture, trades and industry, and distributive education. Some major conclusions and recommendations were: (1) Within limits, students going to work or to vocational-technical schools can be identified, (2) There is a trend in secondary schools to provide more vocational orientation classes and fewer classes for job entry, (3) There is little that can be done in small schools to provide vocational programs in depth to meet the needs of their students, (4) There is a need to redirect almost half of the students who say they plan to go to college and enter a profession into the occupations that require less than a college degree, (5) Parental influence is hard to measure, (6) There needs to be further study of ways and means to determine which students can profit most from vocational classes, and (7) There must be a greater emphasis on providing more adequate postsecondary programs to provide depth of training necessary for job entry. (SB)

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A STUDY

TO DETERMINE

NEEDED IMPROVEMENTS

IN

VOCATIONAL PROGRAMS

IN

NINE NEVADA HIGH SCHOOLS

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1969

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U.S. DEPARIMENT OF HEALTH, EDUCATION & WELFARE OF EDUCATION

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assisted in refining the objectives and procedural methods. DR. YOUNG KOH, Statistics and Computer Science Station Statistician, University of Nevada Reno, directed the calculations accomplished at the Computer Center. MRS. GERRY MCGINLEY, Research and Education Planning Center, College of Education, assisted in writing the discussion of the tables and editing the manuscript. DR. JAMES C. DAVIS, Director of Research Education Planning Center, College of Education, gave valuable help and suggestions in planning and pleting the study. IVAN E. LEE, College of Education and JAMES R. PEDDICORD, State Supervisor of Agri-The following individuals made important contributions to the completion of the project: AR. ROBERT HARTMAN, Graduate Assistant, now Vocational Agriculture, Gridley, California helped plan and develop the study in its early stages. DR. JAMES HAMILTON, Teacher Educator in Agriculture, University of Arizona, tural Education assisted in the establishment of the project. and Education Planning completing the study. cultural Education ass:

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Howard H. Christensen, Researcher University of Nevada Reno

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PPIOR RESEARCH AND BACKGROUND INFORMATION FOR THIS STUDY

the researcher did a study of about 400 businesses in Nevada state-wide to determine characteries. A study was made of boys taking Vocational Agriculture in Elko and Wells in the fall of 1967. This was the first experience in the use of this particular type of research. The results obtained were used, along with a citizens advisory committee, in making an evaluation of the two vocational agriculture departments. In the spring of 1968 a research project was completed in Winnemucca which included all of the junior and senior high school boys. This was done at the request of the County Superintendent, Mr. Lyman P. Bruce, to determine needed changes in their vocational programs at the Albert M. Lowry High School. As a result of this study Vocational Agriculture was added to the curriculum. This study is the culmination of years of work and has grown out of the following studies.

reviewing committee from the Vocational-Technical Branch of the State Department of Education and the College of Agriculture refined the questionnaire. It was determined that if the study was to be most effective it must include all the boys in the high school. It was also determined to broaden the scope of the study to include all vocational areas of narticular importance for the content of the study contents. After the experience in the above schools it was decided to expand the scope of the study. A special include all vocational areas of particular importance for boys.

Questionnaires were obtained from 1,365 boys in grades 9-12. These were coded and sent to the University Computer Center for analysis. Due to the work load their immediate attention was not given to the project and part of the students! questionnaires were inadvertently destroyed. After this happened it was decided not to continue with the remaining questionnaires but to start over and make further refinements in the study. to the work load their immediate attention was not given to the project and part of the students' In May and June of 1968 ten schools agreed to participate in the study.

basic conclusions in the body of the study. Five of the other schools, Elko, Fallon, Fernley, Yeringand Smith Valley are included as part of the nine schools in the body of the study. Only Gardnerville It was decided that the data collected in the schools of Carlin, Gerlach, Owyhee and Wells should be included in the Appendix, part II. The data on these four schools, along with Alamo and Austin, supports the basic conclusions in the body of the study. Five of the other schools, Elko. Fallow and Smith Valley are included as part of the nine collected of the nine collected completely.

This study was an outgrowth of all the prior work. The questionnaires from the nine schools, which The occupational categories made up the body of the study, were completed in the early spring of 1969. The occupational categories were reduced to nine and the objectives and procedures were directed more to the vocational aspects of the school program. e up the body of the study, were completed in the early spring of 1969.

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	42.	43.	44.	45.	.94	47.	48.	.64	.05

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CHAPTER I

RIENTATION TO THE STUDY

Importance And Justification Of The Study

more acute in the last decade. Vocational-technical education is receiving greater emphasis as one of the and who cannot find their place in the present-day world of work have caused great burdens on welfare budgets and have caused many social problems in our scciety. These problems have become increasingly very few job opportunities for the untrained and the unskilled. Individuals who are not trained In our ever changing world of work everyone needs some training to fill most jobs. primary solutions to unemployment and related social problems.

ples of recent vocational-technical legislation is that it is meant for all students regardless of location One of the fundamental princi-The Vocational Education Act of 1963 and the amendments of 1968 are a means of increasing the number and quality of vocational-technical programs in the high schools of Nevada. Unfortunately most of this advancement has been in the larger high schools in the state. socio-economic level, or

academic studies; (2) to assist students in obtaining and holding temporary employment during the period of responsibility of providing occupational training for all students in high schools who do not plan to grasecondary responsibilities: (1) to give some basic training to all high school students to support their duate from college or enter an occupation that requires a college degree. Vocational education has two In planning vocational programs the main assumption is that vocational education has the primary

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competencies which will lead to their eventual occupational success. It should be recognized that in many igned to make students directly employable or improve and develop their knowledge, understanding and while they prepare themselves for permanent employment. Vocational educational programs must be occupations further training beyond high school is required. desi

The principal need for this study is found in the uniqueness and limitations of schools of various Some of the main limitations of these schools are listed below: sizes in Nevada.

- The wide distribution of population throughout the State of Nevada make it necessary to operate number of high schools with small enrollments.
- small. This means it is difficult to group students in vocational courses to prepare them for specific of students for this business. There is, also, very little industry and manufacturing which employ The nature of Nevada's main business, tourism and recreation, limits the training of large numbers employment. This also presents the problem of getting good work experience programs for students large numbers of students. The number and size of the companies and firms in most of Nevada are
- A high percentage of the graduates from Nevada high schools must find employment in opportunities at great distances from the school.
- Most small schools have limited facilities and equipment and do not have financial support for modern vocational programs (4)
- Teachers often do not have enough training to provide the programs in enough scope or depth to meet the needs of the students.

Many small schools are attempting complete comprehensive programs with limited students, thus time is limited to such an extent that poor programs result in many classes.

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STATEMENT OF THE PROBLEM

To determine improvements needed in vocational programs of male students in selected Nevada high schools.

Specific Objectives

- To identify characteristics of male students in selected Nevada high schools as they relate to planning vocational programs.
- To determine the tentative occupational choice and educational plans of the male students. ๙
- To determine the congruence of the tentative occupational choice by category of students with selected measures of consistency of choice. ъ.
- To determine the type of student work experience and how it relates to vocational choice. ပံ
- To determine the extent to which the schools are providing vocational training in accordance to the expressed vocational choice of the students.
- To determine the extent the students vocational choice by category relates to the number of vocational courses taken. ф ф
- To determine the extent the vocational choice by category relates to reason for taking vocational ٠,
- To determine how students evaluate the vocational classes taught in the high ${
 m schools.}$ ن
- To determine the relevance of student vocational choice by category with selected factors in planning vocational programs.

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- To compare student vocational choice by category with expressed student interest in vocational type courses.
- To determine the relationship of occupational choice by category of students with the actual employment of fathers and brothers.
- c. To compare student vocational choice with planned mobility of students.

Assumptions

- That the student's response to a questionnaire will be reasonably valid.
- That a high school student's vocational and educational plans are tentative, but they are meaningful in planning vocational programs.
- tudents have a basic knowledge of the employment of their fathers and older brothers and this information Students have a basic knowledge of the employment will be valuable in planning vocational programs.

Limitations

- The study will be limited to male students in the ninth through twelfth grades, in the following high schools of Elko, Fallon, Fernley, Smith Valley, Yerington, Ely, Lund, Austin, Alamo and Panaca, and the Wooster High School of Reno. The Wooster High School will only include tenth through twelfth ij
 - he primary thrust of the study will be on vocational agriculture, trades and industry, and distributive education, 5

Method

- There were three principal means used in refining and developing the students surveys. follows:
- Experience gained on a pervious survey used on 865 students in eleven high schools in the Spring The data gained from this study is found in appendix part 2.
- The questionnaire was pre-tested on 80 vocational students at the Sparks High School.

- The questionnaires were reviewed by a panel of professors in the College of Education and their recommendations were included. The panel consisted of Drs. Dana Davis, Edwin S. Dodson and Edward E. Loveless.
- In the smaller schools The questionnaire was given in the larger high schools in definite classes. it was given to all of the students at one time.
- Each high school principal or counselor provided the number, kind, and length of all vocational classes This was used as a check against each student's response as to the This helped to curtail duplication. number of vocational classes he had taken. offered in the high school.
- unuseable surveys were All student questionnaires were hand checked before sending to the computer. eliminated.
- Dr. Young Koh, Associate Professor of Statistics and Computer Science, directed the programming and computer work.

Definition of the Term "Occupational Choice by Category"

They were designed to be broad in scope since there appeared to be little advantage of great specificity. It also enabled writer to reduce the number of groups to table them in the manuscript. These categories were designed the students--which of the following vocations or occupations do you believe best indicates what your The Appendix, part three, contains a copy of the questionnaire completed by the students. Page one actual life's work will be? The student was asked to check the <u>one</u> best answer from nine occupational according to the general education and training required and the similarity in the nature of work. gories. After much research and sampling we were able to reduce the number to nine. cate the

We did not ask a student to make a specific choice. If the term "student occupational choice" is it means in all cases in the study "occupational choice by category." used

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CHAPTER II

ANALYSIS OF DATA

Section 1 - Tentative, Occupational Choice And Educational Plans

questionnaires has been arranged to speak to the specific and contributing objectives which were derived Data is valuable only if it is related to some concern. Therefore, the tabulation of the responses to from the statement of the problem.

identify characteristics of those male students, particularly as they relate to planning vocational programs. vocational programs of male students in selected Nevada high schools. The first step logically becomes to Tables one through five describe the population considered with reference to their school, grade level, The problem, re-stated, with which this study is concerned is to determine improvements needed in anc vocational plans.

school. All of the percentages in the tables are rounded off to the nearest whole number. The totals in Table One is a simple summary of the students who responded. These are arranged by grade and by the percentage columns are between 99-101%.

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TABLE 1

NUMBER OF MALE STUDENTS COMPLETING SURVEYS BY SCHOOL AND GRADE LEVEL IN SELECTED NEVADA HIGH SCHOOLS

			Num	nbers a	nd Perce	entages	Numbers and Percentages of Students by School	lents by	7 School			
Grades	Chur No.	Churchill No. %	E1ko No.	% 03	Wooster No.	er %	E1y No.	Ly %	Lund No.	% pu	Lincoln No.	oln %
6	66	30	72	25	*		87	25	5	21	24	32
10	81	25	72	25	206	39	100	28	4	17	21	28
11	84	26	72	25	179	34	101	29	7	29	18	18
12	99	19	70	24	146	27	63	18	∞	34	12	12
TOTAL	330		286		531		351		24		75	
			. '	FABLE 1	TABLE 1 - CONTINUED	INUED						
Grades	Yeri	Yerington		Feri	Fernley		Smith	th		Comb	ed 1	tals
	NO.	%		No.	%		No.	%		X	.NO. %	
6	51	30		14	23		∞	29		33	360 19	
10	20	29		18	30		6	32.		561	51 30	
11	29	17		15	25		9	21		511	11 28	
12	40	24		14	23		2	18		7,7	424 23	
TOTAL	170			61			28			1856	99	

*Wooster is the only school in the study that omits the 9th grade.

Table Two shows the number and percentage of boys in each of the selected high schools who indicated there do appear to be important differences. For instance, in Lund High School disproportionately vocational choices in the various categories. In some categories, the off-farm agricultural business, business and public service, there are no significant differences among schools. However, in other cases

percentages of boys indicated plans to enter farming or ranching and the category of transportation,

size of the school means that two or three responses can drastically alter the picture.

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comparison with the stated occupations of their fathers (see Table 44) should be made.

mining, etc., at the expense of entry into professions (excluding agricultural professions).

What appears to be a significantly high number of Lincoln High School boys who plan to enter agricultural technician and the large percent of Fernley boys who indicated a preference for the skilled trades. In the professions may again be related to the size of the school; a very few boys can influence the distribution markedly. The same situation obtains in reference to Smith High School boys' choice of the occupation of last case, there is again a discernible relation to the fathers' occupations.

W)

Furthermore,

The repetition apparently significant differences may probably be disregarded since they occur only in the four smallest the overall picutre. Certainly one factor to be considered is that in the larger schools the effect It is noteworthy that in none of the larger schools is there any percent which differs significantly single recent experience or the enthusiasms of an individual teacher are greatly diluted. of this question at another time might well yield very different results in the small schools. schools in the survey. from of a

requiring a college degree. Locally this may vary considerably. In Las Vegas, for instance, it has been suggested that no more than seven per cent of the employment slots require a college degree. Conversely, The totals raise the question of how realistic these occupational choices can be. In combining the cent opting for public service, this figure is ridiculously low, particularly in a state with such a gories of agriculture related professions and other professions, one finds a total of 40 per cent. is unressonable in light of the national estimate of 20 per cent or less of the employment slots area of business (sales and service) was chosen by only six per cent. Even when added to the cen heavy reliance on tourism as Nevada. cate This the per

complex. However, a comparison of the students' occupational choices with the total employment picture, The figures naturally do not show the sources of the students' choices. Undoubtedly these are many locally, state-wide, regionally and nationally, indicates that there is a great discrepancy. and

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TABLE 2

MALE STUDENTS'OCCUPATIONAL CHOICE BY CATEGORY IN SELECTED NEVADA HIGH SCHOOLS

			Numbers		and Percentages	entages	of	Students by School	by Scho	100		
Occupational Categories*	Churchill No. "	hi11	E1ko No.	0.1	Wooster No. %	ster %	E1y No.	Y. %	Lund No.	%	Lincoln No.	Jn %
Farming or Ranching	43	13	37	13	14	က	11	m	7	29	9	∞
Off-farm Agr. Business	ο,	က	Н	+	Н	+	ന	Н	Н	4	0	
Business (Sales & Service)	12	4	21	7	54	10	19	5	0		0	
Skilled Trades	87	26	50	17	73	14	06	26	Ŋ	21	13	17
Transportation, Mining, etc.	26	œ	27	6	32	9	34	10	Ŋ	21	2	ന
Technician	18	S.	22	ω	33	9	33	6	0		ø	11
Public Service	29	6	13	ίC	65	12	34	10	Н	4	11	15
Agr. Related Professions	34	10	34	12	78	15	31	6	က	11	14	19
Other Professions	72	22	77	27	180	34	96	27	2	œ	21	28
TOTAL RESPONDING	330		282		530		349		24		75	
NO RESPONSE**	0		4		Н		2		0		0	

TABLE 2 - Continued

Occupational Categories*	Yerington No. %	gton %	Fernley No. %	%	Smith No.	th %	Grace 9	Schools Com Grade Level 9 10 1	Schools Combined Grade Level By % 9 10 11 1	ned / % 12	Totals No.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
0												
Farming or Ranching	11	7	4	7	က	11	6	6	5	7	136	7
Off-Farm Agr. Business	က	7	Н	7	0		1	П	2	0	19	7
Business (Sales & Service)	6	5	3	2	0		7	4	∞	6	118	9
Skilled Trades	36	21	22	36	7	25	23	20	22	19	383	21
Transportation, Mining, Etc.	က	2	4	7	2	7	œ	7	7	7	135	7
Technician	12	7	7	7	9	21	∞	7	9	6	136	7
Public Service	23	14	4	7	2	7	10	10	12	9	182	10
Agriculture Professions	24	14	7	11	7	14	13	15	12	6	229	12
Other Professions	48	28	12	19	7	14	23	27	26	34	510	28
TOTAL RESPONDING	169		61		28		358	558	509	423	1,848	
NO RESPONSE++	H		0		0		7	က	7	Н	ω	

*Broad categories which indicate general types of occupations. In selecting these broad categories they were grouped according to common types of educational programs usually available for training for these occupations.

+Insignificant

++Includes the number of students who did not respond or their questionnaires were not readable, etc.

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significant finding may well be an artifact of the small size of the school coupled with its location and A higher proportion of Fernley able Three gives the plans of students upon leaving high school and fulfilling possible military students plan to go directly to work without benefit of further education. Again this apparently Again there is nothing to really distinguish among schools. er large number of Indian students who make up the student body. obligations. a rath

probably a combination of many complex factors. However, it does raise a serious question concerning vocational The important information again comes from the totals. As in Table Two there seems to be an unrealistic cent of the population. Again there is no indication of the source of these expectations; again it is While the number of people attending college has been increasing dramatically, only 6+ per cent of opulation 25 years and older holds a college degree. Furthermore, various statements have been made the level of academic ability needed to succeed in college; none of these is low enough to include aspiration. Fifty-eight per cent of the students indicate plans to graduate from a four-year ce and counseling practices. colleg about 58 per guidar level

The 11th grade is only Another point indicated in the table is that the percentage of students planning to go to college, Twenty-five or technical school, or directly to work is about the same for each grade in school. per cent of 9th, 10th, and 12th grade plan to attend a trade or technical school. slightly higher trade

TABLE 3

LONG-RANGE PLANS OF MALE NEVADA HIGH SCHOOL STUDENTS AFTER LEAVING HIGH SCHOOL AND COMPLETING MILITARY SERVICE

						1					
Future Plans	Churchill No. %	Numbers E1ko No.	and %	Percentages Wooster No. %	ages of	1	Ely %	Students by School Ely No. % No.	rund %	Lincoln No. %	%
Graduate 4-Yr. College	70 52	161	57	354	89	167	67	10	42	50	67
Trade or Tec. School	95 29	75 2	27	90	17	131	38	10	42	19	25
Directly to Work	61 19	47	17	73	15	45	13	4	16	9	∞
TOTAL RESPONDING	326	283		517		343		24		75	
NO RESPONSE	4	ເກ		14		∞		0		0	
		TABLE 3	- Con	Continued							
Future Plans	Yerington No. %	Fernley No. %		Smith No.	6%	Sch Gre	Schools Com Grade Level	Schools Combined Grade Level by % 10 11	12	Totals No.	als %
Graduate 4-Yr. College	99 58	28 46		16	56	57	09	55	58	1055	58
Trade or Tec. School	43 25	14 23	_	7	25	25	25	31	25	484	26
Directly to Work	28 16	19 31	_1	5 1	18	17	16	14	17	288	16
TOTAL RESPONDING	170	61		28		356	554	501	417	1827	
NO RESPONSE	0	0		0		4	7	10	7	29	
			-13-								

When the decision of a single student alters the statistics by 15 per cent, as is the case when only seven students are involved, in Table Three stated their intention of attending such an institution. Again, the only great difference able Four lists the locations of trade or technical schools which were named by those students who schools is offset by the extremely small size of the school in question (Smith). ordinary computations do not give an accurate picture. among

are more definite in their planning than those of the preceding grade. Of those planning to attend a trade or rs the lack of trade and/or technical schools in Nevada. Of those whose plans are sufficiently definite The other fact is a confirmation of what one would hope to be the case: the students of each grade There are two points of interest which are brought out by this table. The first is how clearly it thinking in terms of names and locations of schools, 83 per cent are planning to go outside of the technical school, 16 per cent of ninth graders, 26 per cent of tenth graders, 43 per cent of eleventh graders and 65 per cent of twelfth graders were able to indicate a name and location. to be state. mirro

TABLE 4

LOCATIONS OF VOCATIONAL AND TECHNICAL SCHOOLS GIVEN BY MALE NEVADA HIGH SCHOOL STUDENTS PLANNING TO ATTEND SUCH SCHOOLS*

	Ohmenh 111	h:11	Numb	bers a	nd Percent	entage	s of Stu	udents v	Numbers and Percentages of Students by School	Lincoln	nlo
Locations	No.	%	No.	 %	No.	%	No.	%	No. %	No.	%
States Other Than Nevada	25 83	83	24	89	23	7.7	54	87	3 100	9	98
Reno-Univ. of Nevada Tech. Inst. & Col. of Ag.	7	5 17	က	11	9	19	9	10	0	∺	14
So. Nev. Voc. Tech. Center	0		0		Н	7	2	3	0	0	
TOTAL RESPONDING	30		27		30		62		က	7	
% INDICATING SCHOOL**		32		36		33		47	33		36

TABLE 4 - Continued

							Š	Schools Compined	omp Tue	ä		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Verington	oton	Fernley	lev	Smith	th	G	Grade Level By %	el By	%	Totals	<u>1s</u>
Locations	No.	%	No.	%	No.	%	ο.	10	11	12	No.	%
States Other Than Nevada	14 78	78	8	75	3	3 75	93 78	78	85 85	85	155	83
Reno-Univ. of Nevada Tech. Inst. & Col. of Ag.	4	22	1	25	1	25	7	19	14 14	14	27	15
So. Nev. Voc. Tech. Center	0		0		0		0	. 3	Н	1	3	2
TOTAL RESPONDING	18		4		4		14	36	69 99	69	185	
** TWITCATING SCHOOL**		42		28		57	16	16 26	43	43 65		38
TOOTION OUTTOOTHIN 9												٠

*This table only includes students who indicated they planned to attend a special vocational or technical school. Table 3 alternative 2.

**Percentage of students who listed the name and location of a school; for example, in Fallon, 30 of 95 gave the name of the school or 32%

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education necessary to enter the occupation of their choice. For instance, of those giving skilled trades, per cent of those who wish to become technicians state they are going to attend either a trade school a college. While there are admittedly some 56 students who intend to enter a profession on the basis high school or trade school only, this is only some $7 \, 1/2$ per cent of the total planning professional indicate some possible confusion as to the type of education necessary for entry into the occupation whole, this relationship appears to be realistic. That is, the students apparently realize the type of selecting the fields of skilled trades, transportation and mining intend to go to college. This seems sample. Of the others, the tendency, as discussed in reference to Table three, is to plan a college that they are not realistically relating education to occupation, is only three per cent of the total ucation when it is not necessary, or perhaps even desirable. As an example, 22 per cent of those life. Even more striking, this group, which is the only group of which it can be definitely stated transportation and mining (which were defined in the questionnaire as possibly requiring advanced training) as their choice, over 75 per cent have indicated plans to acquire further education. Table Five shows the relationship of students' future plans to their occupational choice. well as misunderstanding of the scope of a college education. or

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THE OCCUPATIONAL CHOICE BY CATEGORY OF MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS GROUPED ACCORDING TO THEIR PLANS AFTER LEAVING HIGH SCHOOL

			Futur	Future Plans				
Occupational Groups*	Directly to Work	to Work	Trade School	school	Col	College	Combined+	ned+
	No.	%	No.	%	No.	%	No.	8
Production Agriculture								
Off-Farm Ag. Business	26**	36	32	22**	63	41**	154	∞
Skilled Trades								
Transportation & Mining	120	24	277	55	109	22	909	28
Business (Sales & Service)								
Public Service	88	31	69	24	130	45	287	16
Technician	6	7	. 29	44	99	65	134	7
Agriculture Professions	6	4	23	10	196	98	228	13
Other Professions	7	1	20	4	486	95	510	28
TOTAL - 3 Categories in Future Plans	286		483		1,050		1,819	
PER CENT OF TOTAL		16		. 27		58		

17

*The occupational categories in Table Two have been combined to make six groups rather than These combinations were made for two reasons (1) to shorten the table and (2) students in these nine. These combinations were made for two reasons (1) to shorten the table and areas require similar training, and the basic type of work is generally similar. +Includes a total of each category added on a horizontal line. This is the only column where vertically and the percentage that each occupational group is of the total.

**The percentage is calculated on a horzontal line basis only and includes only the three categories under future plans.

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CHAPTER II

Section 2 - Consistency of Male Students' Occupational Choice By Category

The first contributing objective, that of identifying occupational choice and educational plans of the subject has been well covered in Tables One through Five. The second contributing objective, to determine the congruence of these choices, will be the subject of Tables Six, Seven, and Eight.

consistency coincide; (2) there is general consistency, but the student appears to be unaware of the education occupational choice; and (4) the occupational choice and three measures of consistency do not coincide and categories were then determined and coded as follows: (1) The vocational choice and the three measures of was applied to the following questions: (1) How sure are you of your occupational Choice? (2) What are In order to determine congruence or consistency, each survey was reviewed by the author and a code appropriate to his occupational choice; (3) future occupational plans are not congruent with expressed educational plans? (3) What do you anticipate your occupation will be in about ten years? there is no consistency in the occupational choice. your

it must again be emphasized that the small size of the sample makes for distortion. Five boys can completely of confidence in vocational choice and less awareness of training needed for various occupations. However, departs at all from the pattern of the others. Here there seems to be less congruency, greater lack change the distribution in Lund. Nevertheless, this situation might warrant further investigation within Table Six indicates again that the students compare well across schools. That is, only one school, Lund,

the school.

Only 57 per cent the total sample show this consistency on all criteria. There is some slight encouragement in the fact that 63 per cent of the seniors apparently are approaching the situation realistically. They are only Since, generally speaking, the differences among schools are not significant, attention must be slightly more consistent than the other grades. In reviewing the three measures of consistency the given to the totals. The percentage of students who display congruency seems inadequate. seniors appear to be more sure of their occupational choice than the other grades. o£

service, that many students are looking to this to help resolve their uncertainties. By and large, however, may be, in light of present emphasis on the extensive training programs offered by various branches of the One must be aware that the bulk of these respondents will have military obligations to fulfill; it there seems to be an underlying lack of knowledge about the world of work.

TABLE 6

CONSISTENCY OF STUDENT RESPONSES TO QUESTIONS ASSOCIATED WITH STUDENTS OCCUPATIONAL CHOICE

			Numbers and		Percentages of	ges of	Students by School	ts by	Schoo1				
MEASURES	Code	Chur No.	Churchill No. %	E1ko No.	0184	Wooster No. %	%	No.	.89	Lund No.	.%	Lincoln No. %	lln %
Voc. Choice & 3 Measures of Consistency Coincide*	7	192	59	173	61	309	59	185	55	6	41	39	53
Student Is Not Sure of His Vocational Choice**	2	36	11	19	21	62	12	58	17	9	27	9	ω
Student Is Not Aware of The Training Needed For His Chosen Profession +	က	29	6	6	က	24	4	9	7	က	14	5	7
Student Future Employment Plans Are Not Consistent With His Expressed Occupational Choice ++	4	18	2	18	9	36	7	40	12	2	6	4	2
Voc. Choice and Three Measures Are Inconsistent	5	52	16	22	œ	6	18	46	14	2	6	20	27
TOTAL RESPONDING		327		283		528		335		22		74	
NO RESPONSE		က		က		က		16		7		H	

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TABLE 6 - Continued

								Schoc		bined		10401	1
MEASURES	Code	Yerington No. %	ston %	Fernley No.	ey %	Smith No.	 %	Grade 9	Level 10	. By &	12	No.	%
Voc. Choice & Three Measures of Consistency Coincide *	is of	88	57	29	51	15	54	55	59	53	63	1,040	57
Student Isn't Sure of His Vocational Choice **	2	18	12	7	12	က	11	17	13	18	6	257	14
Student Is Not Aware of The Training Needed For His Chosen Profession +	m	4	က	2	7	2	7	'n	2	m	'n	84	7
Student Future Employment Plans Are Not Consistent With His Expressed Occu- pational Choice ++	4	10	9	9	11	8	7	٠	7	σ	ω	136	∞
Voc. Choice and Three Measures Are Inconsistent	20	34	22	13	23	9	21	18	16	16	15	292	16
TOTAL BESPONDING		155		57		28		354	546	502	407	1,809	
NO RESPONSE		15		7		0		9	15	6	17	47	
i													

* This was determined by the fact that the student indicated that he is fairly sure; his choice of a school; what he plans to do 10 years hence; are all consistent and relate directly to his occupational choice by category.

** Code 3 and 4 were consistent with 1.

+ Code 2 and 4 were consistent with 1.

++ Code 2 and 3 were consistent with 1.

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Table seven again points up the lack of realistic thinking among the boys surveyed.

fourth measure of consistency. Since this was not done the effect of grades are considered in Table eight. students were realistic in their occupational choice by category. It was apparent to the researcher after One of the questions the author wanted to explore was to determine the extent that male high school computations were complete that grades in English and mathematics should have been included as the

male students are consistent in their occupational choice. (2) 26% are partially consistent. From the information in Table seven, it would appear these generalizations can be made: (1) are inconsistent or confused. 15%

consistency than students going directly to work, but they were not as consistent as the college oriented The question as to whether the high school counselor is doing a better job of counseling the college (62%) contrasted with the least inconsistency (12%). These percentages are greatly different than the group contrasted with (line 3) per cent inconsistency. The college oriented group showed the greatest consistency Table seven pinpoints the problem of counseling students who expect to go directly to work as compared trasted with 25% who were inconsistent. The students planning to go to a trade or technical school showed ne college bound student. The primary meaning in the table is found in (line 1) per cent consistency, of students who indicated they were going directly to work. Only 44% of this group were consistent, conbound student because he himself is academically oriented needs further study. group. more

need special attention and help which unfortunately they usually are not getting. The information in Table It is obviously apparent that students planning to go directly to work are not sure of themselves and ren does not answer the following questions: (1) Will the boys going to work accept help or counsel? sev

What can the school do to assist these students with its current limitations?

(2)

phenomenon being illustrated by a combination of distaste for further education and unrealistic vocational aspirations, and a general futility in not knowing which way to turn. The data in Table eight indicates is group of students realize college is not for them because of their low grades in English and mathe-The reason why there is a high rate of inconsistency in students planning to go to work may be the matics thi

the counselor, but the vocational teacher as well. Vocational teachers in many situations have not assumed their responsibility in assisting students to become prepared and make an entrance into the world of work. Vocational teachers must assume their rightful role in the guidance of students. The problem of counseling and guiding students into useful employment must be a cooperative effort for both counselors and teachers; planning to attend college; they should have received counseling toward a different course of action. If, on the other hand, they truly are college material, having the aptitude, financial ability and motivatheir vocational choices. If their vocational plans are not suitable and realistic, they should not be Of perhaps even greater concern is the 12 to 26 per cent of college-bound boys who show inconsistency not received adequate and accurate information. To obtain information is not only the responsibility of tion for this course, their choices of occupation need revision. In any case, it appears that they have neither can do the job effectively alone. in

TABLE 7

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THE CONSISTENCY OF STUDENTS' OCCUPATIONAL CHOICE GROUPED ACCORDING TO STUDENTS' FUTURE PLANS AFTER LEAVING HIGH SCHOOL AND COMPLETING MILITARY SERVICE

			Future Plans*	ture Plans*	College	90	Combined	ָּים.
Consistency*	No. %	% % % % % % % % % % % % % % % % % % %	No.	%	No.	% 000	No.	%
Vocational Choice & Three Measures Of Consistency Coincide +	127	77	279	59	634	62**	62** 1040	58
Vocational Choice & Two Measures Of Consistency Coincide ++	86	30	119	25	265	26	470	26
Vocational Choice & Three Measures Are Inconsistent +++	71	25	74	16	126	12	271	15
TOTAL OF THREE CATEGORIES IN FUTURE PLANS	284	100	472	100	1,025	100 1,781	1,781	
PER CENT OF TOTAL **		16		27		58		

*Information contained in Tables Three and Six.

**Includes percentage in each of the three categories in future plans.

+Table Six, Code 1.

++Table Six, Gode 2,3,4 Combined

+++ Table Six, Code 5.

The first point which meets the eye is how closely the grades (English and mathematics combined averages. One might well argue that this tends to be irrelevant for those planning to enter the world of average) approximate a normal distribution. However, of much greater salience is where each group (those as expected; trade or technical schools generally do not hold to the rigid entrance requirements of those with lower grades, and such indeed seems to be the case. In those opting for trade or technical going directly to work, those planning to enter trade school and the college-bound) falls in terms of ork without further education. Practically, of course, one would expect to find more of these among Table Eight presents more evidence on the realism or lack thereof of the educational plans of schools, there is a spread along the scale with the bulk achieving averages of "C" and "D."

In attempting to measure consistency of students' occupational choice, it appears from the grades of desiring to graduate from a four-year college. The problem is how can students who plan to go directly students going to work and on to trade or technical schools that they are basically realistic in not to work be trained to enter and hold satisfactory employment.

four-year college. Four-year colleges do have entrance requirements as to the grade point average earned n high school over a minimum number of academic credits. The University of Nevada, Reno, sets a cut-off If this proves to be point of 2.3, which is slightly above a "C." It would seem reasonable to assume that the English and The major concern must be with the large group who signified their intention of graduating from mathematics grades are probably pretty typical of the overall grade point average.

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case, there are some 66 per cent of the boys who intend to graduate from a four year college who do even meet the standards for entering the one in their home state. not

criteria. Some study needs to be made of the sources of these aspirations; some study must be made planning to graduate from a four-year college when all the evidence shows this to be unrealistic on Uver and over the facts elicited in this survey point out that a large number of high school boys of how to bring them into line with reality. many are

college, 484 students expected to attend a trade school and 288 students indicated they were going directly directly related question. This type of analysis is possible by using the computer. In referring to the table which includes a comparison of the responses to two separate questions is lower than where only one compare student responses to two different questions they do not match perfectly but the percentages are question is tabulated. To make the totals match perfectly the same number of students would have had to answer both questions. This was not the case. In table 3 for example, 1055 students expected to attend however the percentages in each category in each table are the same. In all of the similar tables which ls in each table separately there is usually a slight difference in the totals. The totals in the The corresponding figures in table 8 are 1048, 474 and 285 respectively. It should be noted purpose of these tables is to determine how the students who responded to one question responded to a Twenty three out of fifty tables are designed similar to tables 7 and 8. usually the same or will vary not more than one percent. to the reader: to work. Note total

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TABLE 8

THE PLANS AFTER LEAVING HIGH SCHOOL OF MALE STUDENTS GROUPED ACCORDING TO THEIR GRADES IN ENGLISH AND MATHEMATICS

°° ©

					A	Average Grades*	rades*					
Plans After High School	No.		B No.	%	No.	%	No.	<i>%</i>	No.	%	Combined No. %	%
10011 04 -110		+	24	8	139	49	111 39	39	10	က	285	16
Directly to work	ı ı	1**	52	11**	236	20 **	171	36**	10	2**	474	26
Trade or lecu. Junoi	65	9	292	28	531	51	153	15	7	Н	1,048	28
פושותשות ביים ביים ביים ביים ביים ביים ביים ביי	-		368		906		435		27		1,807	
TOTAL WITH EACH GRADE PER CENT OF TOTAL	7	. 4		20		20		24		1		

*Students were asked to give their average grades for all classes in both English and These were coded and averaged to determine the above. mathematics.

+Insignificant

**The percentage is calculated on a hortizontal line basis only, and includes only the five categories in average grades.

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CHAPTER II

Section 3: Student Work Experience Extent and Importance

The third contributing objective in the identification of the Students' characteristics as they relate planning vocational programs concerns student work experience. Specifically, this objective is stated "To determine the type of student work experience and how it relates to vocational choice."

Owing to the extremely small size of the widely divergent schools, none of these differences can be consid-Nine shows that 55 per cent of the boys participating in the study were employed. Again, while there are Examination of Table differences among schools, those differences are probably in large measure a product of local factors Obviously, in determining type of work experience and relation thereof to vocational choice, the first step is to separate out those students who have indeed had work experience. ered significant

grow older they are more able to find employment. It should be noted that the big change is between the 10th and 11th grade. Students usually are 16 years old when they are in the 11th grade and thus are As expected, there is a steady increase in per cent employed from ninth through twelfth. favored by the laws regulating certain employment. Table 10 includes only students who worked in the summers while Table 9 those who worked only during This meant 85 percent worked le school year. They show that 562 more students worked in the summer. productively in the summer compared to 55 percent during the school year.

TABLE 9

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MALE STUDENT EMPLOYMENT IN SELECTED NEVADA HIGH SCHOOLS DURING THE SCHOOL YEAR 1968 - 1969

			Nu	mbers a	nd Perc	Numbers and Percentages of Students by School	of Stu	dents by	Schoo	0.1		1
Fmnlovment	Chur	hi11	E1ko	0.	Wooster	ter	Ely	>	Lund	pı	Lincoln	되
	No.	No. %	No.	%	No.	8%	No.	%	No.	%	No.	%
Number employed	204	62	163	58	263	50	184	53	20	83	33	46
Did not work	124	38	120	42	264	50	165	47	4	1.7	38	54
TOTAL RESPONDING	328		283		527		349		24		71	
NO RESPONSE	8		m		4		7		0		4	

TABLE 9 - CONTINUED

									School	Schools Combined	ים	
T.m. Journ Co.	Verin	oton	Fernlev	lev	Smith	th	Gra	Grade level by %	el by	%	Totals	1s
Emp toy ment	No. %	64 64	No.	%	No.	%	6	10	10 11	12	No.	%
Number employed	91	53	30	50	21 75	75	48	65	57	29	1009	55
Did not work	. 79 46	97	30	50	7	25	52	51	43	33	831	45
								\ \ \				
TOTAL RESPONDING	170		09		28		356	554	509	421	1840	
NO RESPONSE			H				4		7	က	16	

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more sparsely populated, there would tend to be more self-employment, as agriculturalists or proprietors employed, three-fourths worked for employers other than their parents. However, as might be expected, the small businesses. Thus parents could more readily employ a son during the summer months. This plan of operation has many advantages. It is also noteworthy that in the one urban high school the per cent of cent of those who worked for their parents generally was higher in the rural areas. In areas which Table Ten discusses the employment held by students during the summer of 1968. Of those who were unemployed was considerably higher, in fact almost to the point of statistical significance. per are

The figures also show that the per cent of students employed by other than parents increases steadily without a definite wage was determined. This was not included in table 10. There was a larger percentage of students who did not receive a definite wage compared to those who did. As the students grow older the outside employment. An analysis of the percentage of students who worked for their parents both with and tudents progress through the grades. During this same time span both employment by parents and unloyment decrease. Again the data merely supports the common-sense view. The younger boys are less receiving a definite wage increased compared to those who did not receive a definite wage. of child-rearing or as a form of subsidy. As the boy grows older, he is better able to find and hold to find work; in some cases parents will hire them because it is in accord with their philosophy able emp1

Students who worked for their parents	Grades 9	19	11	12	
Without a definite wage (in per cent)	20	12	œ	5	
With a definite wage (in per cent)	10	12	6	7	

TABLE 10

MAJOR EMPLOYERS OF MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS DURING SUMMER 1968

			Numbe	rs and	Percen	tages	Numbers and Percentages of Students by School	ents by	Schoo.			1
TT	Church: 11	h:11	Elko	. 0	Wooster	ter	Ely	>	Lund	đ	Lincoln	티
Emptoyets	No.	2	No.	52	No.	%	No.	%	No.	%	No.	5 %
Employers other than parents	204	62	198	69	335	63	226	64	18	75	54	74
Joronfe Daronfe	84	25	61	31	84	16	74	22	5	31	13	18
Did not work	40	12	26	6	111	21	51	14	1	4	9	∞
TOTAL RESPONDING	328		285		530		351		24		72	
NO RESPONSE	ı		Н		1		0		0		3	1

TABLE 10 - CONTINUED

•	V.	1	Fernley	164	Smith	th	0	Scho rade 1	Schools Combined Grade level by %	nbined y %	Totals	
ьтроуетя	No. %	7	No.	200	No.	%	6	10	11	12	No.	%
Employers other than parents	105	63	17	79	10	36	20	59	20	79	1191	. 49
for a detinite wage	ToT	3	1	•		, ,		•	,	,	500	
Darents	34	20	11	13	15	54	90	24	1/	77	38T	77
•	30	α.	7	12	1	11	19	17	13	10	306	16
Did not work	2	2	٠									1
TOTAL RESPONDING	169		59		28		356	557	511	422	1846	
ADDORDED ON	 -		7		0		4	4	0	7	10	
TOWN TOWN ON												

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offer help to any appreciable extent. It can be speculated that there may be in that office an individual per cent of the boys got their jobs through their own efforts or with the information and assistance of parents and/or friends. In only one area, Fernley, did the Employment Security Department appear to s interested in the problem. The contribution made by vocational teachers and guidance counselors Table 11 speaks to the sources of help used by the boys who were employed by someone other than their parents. Unfortunately, the only conclusions which can be drawn from the data are negative. negligible. who i one 1 Was

he latter is the case, some plan of action should be determined. There are many reasons for believing area should be explored. If the former is the case, steps should be taken to rectify the situation. s beneficial to youth to be employed. If this is so, then all possible assistance should be given assistance is the responsibility of some group which is failing to meet it or whether in fact it is an It would appear that there is a lack which needs some real study and work. Whether this type of in their quest for employment. oben them

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TABLE 11

SOURCE OF HELP IN GETTING JOBS FOR MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS*

	:		Numbers	ers an	d Perce	ntages	and Percentages of Students by School	dents 1	by Scho	201		
Sources	Churchill No. %	hi11	E1ko No.	03	Wooster No.	"iei	No.	Ely %	Lund No.	% pu	Lincoln No.	1n %
Self, Parents or Friends	194	95	176	89	311	93	199	88	17	94	47	86
Employment Security Dept.	'n	2	17	δ	14	4	24	12	н	9	5	6
Vocational Teacher	7	7	4	2	5	r -1	2	Н	0		0	
Guidance Counselor	Н	1	Н	0	5	Н	Н	0	0		2	4
TOTAL EMPLOYED*	204		198		335		226		18		54	
	! 	E⊣i	TABLE 11		- Continued			Scho	Schools Combined	mbined		
Sources	Yerin No.	Yerington No. %	Ferr No.	Fernley No. %	Smith No.	ith %	Gra 9	Grade Level	el by 11	12	Totals No.	11s %
Self, Parents or Friends	95	90	32	78	18	100	94	92	89	87	1,089	91
Employment Security Dept.	10	10	σ	. 22	0		Ŋ	7	10	11	85	7
Vocational Teacher	0		0		0		0		Н	2	. 15	Н
Guidance Counselor	0		0		0		1	+	0	1	10	
TOTAL EMPLOYED*	105		41		18		197	123	115	113	1,199	

*Includes only students who worked for someone other than parents, alternative 1 of Table 10. +Insignificant

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instance, in Smith, 82 per cent of the boys were employed in agricultural production. However, this should be interpreted as a measure of the occupational choice of Smith High School boys; rather it should be applies to the distribution of employment of the Wooster High School boys. That is, the bulk of employment there is in business and other. In the urban setting of Reno, this is where the opportunities are. considered as descriptive of jobs available to teen-aged boys in this area. The same general reasoning The figures which appear in Table 12 are meaningful only as an index to the local situation.

The apparent shift in employment over-time is also at least partially an artifact of the situation. for the apparent shift away from agricultural production toward business and mechanics and construction. Reasons have already been discussed for the drop in unemployment rates. Much the same reasoning holds Laws, safety considerations and employer opinions all play their parts in determining what employment suitable for each age group.

TABLE 12

TYPES OF EMPLOYMENT OF MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS DURING THE YEAR OF

			Num	bers and	Percen	itages o	f Stude	Numbers and Percentages of Students by School	choo1			1
Types of	Churchill No. %	hi11 %	E1ko No.	8	Wooster No. %	ler %	Ely No.	<u>"%</u>	Lund No.	الع الع	Lincoln No.	п %
Table of money												
Business	78	24	100	35	203	38	115	33	0		18	24
Ae. Production	114	35	69	24	35	7	38	11	19	79	23	31
Other	36	11	48	17	101	19	59	17	Н	4	13	17
Mechanics & Const.	26	∞	14	5	97	6	40	11	Н	4	ო	4
Off-Worm Ag. Business	18	9	9	7	16	ന	18	9	Н	4	7	5
Did Not Work	54	16	31	11	127	24	78	22	7	8	6	12
TOTAL RESPONDING	326		268		528		348		24		70	
NO RESPONSE	7		18		m		n		0		5	

TABLE 12 - Continued

			ſ	,	c	-		Schoo	Schools Combined	nbined	Total	-
Types of Employment	Yerir No.	Yerington No. %	Fernley No. %	Ley %	No.	u"	6	10	11	12	No.	%
Business	36	21	12	20		4	13	26	38	38	563	31
Ag. Production	41	24	17	28	23	82	25	22	20	18	379	21
Other	24	16	∞	13	H	4	16	17	14	18	294	16
Mechanics & Const.	14	∞	∞	13	က	1.1	9	7	6	12	155	9
Off-Farm Ag. Business	10	9	2	3	0		4	5	7	3	75	4
Did Not Work	35	21	12	20	0		30	23	15	10	348	19
TOTAL RESPONDING	163		59		28		348	548	501	417	1,814	
NO RESPONSE	7		2		0		12	13	10	7	42	
			i									ļ

oe employed in that profession during his high school years. There are two common definitions of profession: For instance, the student who has stated that he wishes to enter a profession is not going to held during the year 1968. It must be noted that student employment is always limited by what is Table 13 compares the expressed occupational choices of the students with the types of employment that a college degree is required or that a license is required. In neither case can the high school the same will be true of the boy who wishes to become a technician or enter a skilled trade. tudent qualify, and thus he cannot gain part-time employment in his chosen field. wailable.

adults; generally they must seek employment near their homes. Therefore, the boy who wishes eventually to farm may not be able to work on a farm after school or during the summer if his residence is urban. There are other limiting factors. Boys of this age largely lack the mobility they will have as Conversely, of course, certain urban occupations are closed to the rural high school boy.

Business or Public Service, 54 per cent of those employed are employed in Business. Those boys who indicated a desire to enter a profession are employed, as would be expected, largely in Business or Other, rather (This is based on those boys who are employed anywhere.) Again, of those declaring their choice to be In spite of these limitations, however, many of the correlations between part-time employment and occupational choice are significantly high. For instance, of those boys who opted for Production Agriculture and Off-farm Agricultural Business, 87 per cent are actually employed in these categories. than in Agriculture, Mechanics, or Construction.

deliberate attempt to seek employment in the field of occupational choice. There is some slight evidence needed to reveal whether the occupational choice was based on employment experience or whether there was in the professions or the skilled trades, yet nearly a half of the boys indicated their choice of these This would tend to suggest that, at least for these boys, a satisfactory employment experience n favor of the latter. As stated above, the high school boy cannot readily find part-time employment Generally speaking, then, there is considerable consistency demonstrated. Further study would be was not the basis of future occupational plans. ields.

Explanation in reading Table 13

cultural production and off farm agr. business, 117 or 82 per cent were employed during 1968 in agricultural production. Another example is 184 students or 46 per cent of the 402 students ψho selected the category category or categories. For example, of the 142 students who selected the occupational categories agri-The combined totals for each line is the number of students who selected that particular occupational other professions, worked in a business (sales or service)

Of the 1,461 students in 1968 who were employed or worked productively 378 or 26 per cent were employed in agriculture production and 563 or 39 per cent worked in business (sales or service) Page 26 gives further information on reading this type of table.

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TABLE 13

THE OCCUPATIONAL CHOICE BY CATEGORY OF MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS GROUPED ACCORDING TO THE TYPE OF EMPLOYMENT DURING THE YEAR 1968

		-			Typ	Type of Employment	ploymen	Ļ				
Occupational Groups	Agricul. Prod. No. %	ul. %	Business No. %	ness %	Mechanics or Constr. No. %	nics nstr. %	Off-farm Agr. Bus No. %	Bus.	Other No.	ler %	Combined Total No.	oined Total %
Production Agricaíture Off-farm Agr. Business	117	82	σ	9	က	2	7	Ŋ	. •	4	142	10
Skilled Trades Transport. & Mining	93	22	151	36	70	17	24	9	79	19	417	29
Business (Sales & Serv.) Public Service	38	18	116	54	6	12	12	9	30	14	215	15
Technician	19	18	43	41	13	12	∞	œ	22	21	105	7
Agriculture Professions	56	31	09	33	16	6	12	7	36	21	180	12
Other Professions	55	14	184	97	32	œ	12	m	119	30	402	27
TOTAL EMPLOYED	378		563		153		75		292		1461	
PER CENT OF TOTAL		26		39		10		5		20		

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CHAPTER II

Section 4 - Relationship of Vocational Courses Taken and Occupational Choice by Category

determining three component objectives and providing data for each. The first contributing objective to determine the extent to which the students' vocational choice by category relates to the number of The second major objective is to determine the extent to which the schools are providing vocational raining in accordance with the expressed vocational choice of the students. Again this is arrived at ocational courses taken

ion which is effected by such things as labor unions, size of the school, staff and finance and all factors f combinations of subject matter with similar, yet different, course titles, (2) there are many different engths of courses, such as one semester, one year, double and triple periods (Table 14) for the same type nd expected outcomes of their vocational programs. Part of this difference results from the local situaf course, (3) there is a difference in basic philosophy of administrators and counselors of the purposes easons why this information is difficult to obtain. They are as follows: (1) there is a wide variety The researcher found it most difficult to determine the exact number of vocational classes taken by This information was obtained from the student and irregardless of how the questionnaire There are several as constructed there was some problem in the student's mind on how to complete it. ombined which influences the total capability to provide vocational programs. ach student.

rom the high school counselor or principal at the time the questionnaires were administered in the school. In order to check student responses and curtail duplication the information in Table 14 was obtained This was most helpful but there could have been some duplication in some students surveys.

identify vocational classes. For the purpose of this study the researcher took the schools' interpretation of what they considered to be vocational. Examples of some of the additional classes not included in the schools. The difference between vocational classes and vocational orientation classes and the importance of the distinction between the two will be discussed on page 43. One problem is that it is difficult to Table 14 does not contain all of the vocational or vocational orientation classes offered in many table are as follows:

<i>l</i> ocational or Technical English	Churchill
Introductory Aeronautics	Churchill
Photography	Churchill
Surveying	Elko
Computer Programming	Elko, Wooster
Small Gas Engines	Fernley

Many schools offer one semester courses in electrical wiring. To some extent these were included with wood working and carpentry in the table.

TABLE 14

TYPE AND LENGTH OF VOCATIONAL PROGRAMS OFFERED FOR MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS

			×	Kinds, Types,	Type	ì	and L	and Lengths of Vocational Programs	of Voc	atic	na1	Pro	grams						
			Auto	0	Wood		Carp	Carpentry	Welding Metal	Ing L					<u> </u>			Dist.	.•
Schools	Vo. Ag.	Me	cha	Mechanics	Work		81d.	Bld. Const.	Work	. 4		Draf	Drafting	Ele	ctro	Electronics		Ed.	
	P	S	Ь	D T	S	P	Ь	D	SP	Ω	E	S P	D	S	Ь	D	S	Ь	Ω
Churchill	×		×	×	•	×	×	×	×			×						×	
E1ko	×			×		×	•	×	×			×	×		×				
Wooster*		×	×	×	×	×			×	×		X	×	×	×	×	×	×	×
Ely			×	×		×	- *	×	×	×		×				×			
Lund	×	-,,																	
Lincoln			×	×					×		×								
Yerington	×			×		⋈						×							
Fernley	×					×			×			×							
Smith										×									
1		_				-	-												

S = Only one semester for about 55 minutes

P = Single class period of about 55 minutes for the year

D = Two consecutive class periods of about 110 minutes for the year

T = Three class periods of about 160 minutes for the year

*These only include courses offered at the Wooster H.S. but tables dealing with the number ocational courses students have taken includes the 9th grade.

Table 15 gives a summary of the number of vocational classes taken by 11th and 12th grade students Table 15 cannot be studied without considering Table 14 en in the different high schools.

In the consideration of the tables in this section it is essential that a careful distinction be e between the terms vocational education and vocational orientation, The Report of the Panel of Consultants in 1963 says, "that vocational education refers to that part The commonly accepted meaning of "fit students for work" is for the student to have that degree of competency for job entry. a student's instruction intended specifically to fit students for work." (1)

Vocational Orientation means training provided to give the student enough experience in the various vocational ...elds to select an occupation he desires to pursue.

program and is thus mainly proportional to the number and length of classes in which a student is enrolled. of the limitations of Table 15 is that it does not indicate the number of students taking classes that The difference between the two terms centers on the depth of training in a particular vocational longer than hour periods. One

several areas. Upon the other hand, if the objective is to train students with depth vocationally, it would appear that a fairly high percentage of the students should have had two to three courses in one particular Table 15 raises a question as to the objectives of the schools. If the objective of the school is provide a wide exploratory program there would be an advantage to have each student take one course in area or have had some of the double periods depending upon how the program is organized in the school.

Education for a Changing World of Work, Report of the Panel of Consultants on Vocational Education, 3

0.E.-80021, U.S. Government Printing Office, Washington, D. C., P. 5.

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in this regard would be the extent the different vocational courses support each other and the degree from an examination of Table 15 that some schools are doing a better job in vocational orientation while student can obtain depth of training in a particular field after leaving high school. are doing a better job in providing vocational training for job entry. factor that a others

anticipate entering the professions as compared to the percentage of students who have taken three or more vocational classes. This would indicate in practically all schools there is a need for a greater number Another comparison can be made from the data in Table 15 and that is the percentage of students who of students to enroll in more vocational classes.

In Lincoln, for example, 59 percent of the students have taken no vocational courses comapred to 47 percent who plan a professional career. The tables does indicate in Lincoln that a high percentage of the students larger schools in the study. In Lund all of the boys have taken vocational agriculture which is the classes (P. 48). In Smith, 72 percent of the students do not plan to go on to college, yet 45 percent of An examination of the schools of Lund, Smith and Lincoln offers some interesting contrasts with some the students have had no vocational courses and those taking vocational courses have had only one course. whoenrolled in vocational classes are taking two or more classes and those who have elected a vocational only vocational program offered. The vocational agriculture program includes some basic instruction in mechanics. The student responses from this school indicate a desire for a greater choice of vocational program are following through on it. of the

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SUMMARY OF THE NUMBER OF VOCATIONAL CLASSES TAKEN BY MALE 11TH AND 12TH GRADE MALE STUDENTS IN THE SELECTED NEVADA HIGH SCHOOLS IN THE STUDY

			Percent	age of Stud	lents Takir	Percentage of Students Taking Vocational Classes	Classes
Schools	No. Students	Average Voc. Classes Per Student	None	One*	Тмо	Three or More**	Professional***
Elko	141	3.4	9	45	31	24	39
Lund	15	3.0	0			100	19
Churchill	150	3.0	11	59	21	20	32
Ely	162	2.5	15	26	33	11	36
Yerington	69	2.1	16	51	30	18	42
Fernley	28	2.1	18	58	32	0	30
Wooster	324	1.8	28	77	18	5	64
Lincoln	29	1.2	59	35	70	25	47
Smith	Ħ	.7	45	100			28

***This is the percentage of students in Table 2 who indicated an occupational choice by category as the professions requiring a four-year college degree or more (agriculutre and other professions). *Student enrolled in only one class in a particularly vocational subject, such as auto The same student may have been involved in several different courses. **Three classes in the same program, such as three classes in vocational agriculture. mechanics.

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The data on 9th and 10th grades was obtained but omitted in these tables because they Tables 16 through 22 are an analysis of each of the high schools in the study showing the relationship the number of vocational classes taken by 11th and 12th grade students with the occupational categories Ideally only the 12th graders should have been used because at the time the questionnaire was given they distort the figures because the students have not had an opportunity to take many vocational classes. had made all of their choices as to classes. The lith grade was included to make a larger sample. was particularly necessary in some of the small schools in the study. selected in Table 2.

In the tables the length of class period was not included. The importance of this factor was discussed with Tables 15 and 30.

to take at least one. Carpentry and building construction have enrolled noticeably fewer. Whether this is found. Boys choosing skilled trades, transportation, and mining have taken more of these; boys choosing Since building construction and carpentry is one of the areas projected to expand in the state it would due to lack of availability of courses or lack of interest of students is a question for further study. business and professions have taken fewer. Since these courses are also valuable to those planning to enter agricultural production it is not surprising to find that boys in this category have also tended choice categories. Auto mechanics, welding, and metal work or maching shop and drafting or mechanical drawing seem comparable in the number of boys they have attracted. Again the expected relationship is These tables show the number taking the trades and industrial classes in the various occupational

However, the table appear reasonable that the training for this vocational area should also be expanding. presents evidence that such is not the case.

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vision and work experience programs after school and at night may be fruitful also special programs might be business in this study, it refers strictly to sales, distribution and service; not to office practice or the The tables also indicate clearly that distributive education is not a significant factor in the schools may be that a similar study of the girls might yield different results. It appears there needs to be more why this area is seemingly slighted. One point to keep in mind is that this study concerns only boys; it boys choosing their vocation in business, only a very few have had such a class. In using the term typical classes in a business education department. Here again is a point for further study to determine why there are so few students in sales and service. Tables 42 and 43 indicate there is limited interest organized to be taught in the summer when the employment opportunities are the highest for high school in this important area. When one refers to the total state employment projections he can only wonder included in the study. Only two schools offer these programs and the number enrolled is very small. innovative ways in teaching this area such as short intensive courses at the end of school, etc. age students. among

IJ

A study of the occupational category "technician" appears to be somewhat misunderstood by the student. Perhaps the questionnaire could have been more specific. A study of the tables indicate that the students who desire to be technicians in some regard follow similar programs of the skilled trades and many on the

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Only three schools provide training in electronics. the opportunity for many students to gain specific training in this field. hand are similar to the college oriented. limits other

ables for Lund and Smith are not included. The occupational choices by category of boys in the 11th

and 12

8

th grades in these two schools are as follows:
Agriculture (production & off-farm business)
Business (sales & service)
& Transportation

This again is a small high One would wonder why about half the students in Smith plan to be technicians.

EXPLANATION FOR READING TABLES 16 THROUGH 22

., but a large number considering the size of the school.

school

occupational choice by category. This included 23 in Agr. Production and Agr. Business, 11 business (sales for example: Elko (Page 49) a total of 141 boys, 11th and 12th grades only, were broken down by their This was repeated for all seven columns to make a total of 111. To obtain the average number of voand service), 39 skilled trades and transportation, etc. to make a total of 141. This table indicates the types of vocational programs offered in the school. For example; of the 23 boys choosing the occupational category Agr. Production, 3 boys had one class in Vocational Agriculture, 2 had 2, and 17 had 3 or more. The 141 boys in the school cational classes per student was determined by dividing 23 into 111 to give the average of $ar{4}$.8 vocational of vocational classes that the students in each occupational group had taken of each of the seven 23 boys completed a total of 111 vocational classes. This was determined by multiplying 3x1, 2x2, classes per boy. In the bottom nine students had taken no vocational classes. had completed 481 classes to make an average of 3.4 vocational classes per boy. 3x17. number These

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TABLE 16

NUMBER OF VOCATIONAL CLASSES TAKEN BY MALE 11TH AND 12TH GRADE STUDENTS AT ELKO COUNTY HIGH SCHOOL GROUFED ACCORDING TO THEIR OCCUPATIONAL CHOICE BY CATEGORY

	Average Classes Per Stu.		8.	2.7	3.9	3.4	3.0	3.2	2.3	3.4
	Total No. Classer		111	30	154	T†	21	39	85	481
	DE	П								
(Elec tron ics	1 2	H		н	ю			2	80
Number of Vocational Classes	J.	3			m			2	9	日
Cla	Draft- ing	2	7	1	2	က	2	2	5	20
na1	D,		ις)	က	5	П		7	6	25 20
tio	60	#	-				- 1 -			
/oca	Welding Metal Work	2	3		-			Н		6 1
of \	WeJ Me			H	н		1			5
er	•	3	3	2	10	Н		7	H	19
lumb	Carp. Wood Work	2	7		16	2	3		7	35
			<u> </u>	4	∞	3_	Н	<u></u>	-11	33
	•	3+	1		3	3				∞
	Auto Mech.	2		П	5		1			~
	V V	1	m	4	11	-		2	5	36
	+	3+	17		3	П		4	H	26
	Voc.	2	2		9	4	2		н	15
			က	2	70		3	\vdash	9	23
	Did Not Take			+			H		7	6
	Total Stus.		23	11	39	12	7	12	37	141
	Occupational Groups		Ag Prod. & Ag. Business	Business	Sk. Trades Trans.	Technician	Public Service	Ag. Professions	Other Professions	TOTAL

0

+ Includes some shop and welding classes

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. TABLE 17

NUMBER OF VOCATIONAL CLASSES TAKEN BY MALE 11TH AND 12TH GRADE STUDENTS AT CHURCHILL COUNTY HIGH SCHOOL GROUPED ACCORDING TO THEIR OCCUPATIONAL CHOICE BY CATEGORY

TABLE 18

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THE NUMBER OF VOCATIONAL CLASSES TAKEN BY MALE 11TH AND 12TH GRADE STUDENTS AT WOOSTER HIGH SCHOOL GROUPED ACCORDING TO THEIR OCCUPATIONAL CHOICE BY CATEGORY

	Average Classes Per Stu.		3.3	1.7	2.8	3.1	2.0	1.3	1.0	1.8
1	Total No. Classes		20	89	191	73	84	09	116	582
	DE				2					2
	Elec tron ics	1 2	2	4 2	6 2	9 4	5 2	2	8 2	1 14
sses		3+	н		3	-	-	7	7	10 31
Cla	Draft- ing	2	rI	က	က	4	4	2	5	
na1	Draf ing	1	2	œ	19	6	∞	œ	16	70 22
Number of Vocational Classes	1 gg	3+		_				——		2 7
Voc	Welding Metal	2			4		7	,,		, 9
of	Me N	1	7	4	8	7	4	9	4	49
ber	, ь ч	3		ī	2		2		2	7
Num	Carp. Wood Work	2	+-1	ירי	9		4	Н	က	20
		-1	7	13	29	19	17	19	26	4125
	० सं	3+		2	2					4
	Auto Mech	7	Н	Н	12	T	2		7	24
	_	1	2	7	19	6	12	11	20	80
	ပံ •	3+								
	Voc. Ag.	2								
		ri		н_						2
	Did Not Take		H	10	7	2	7	13	54	92
-	Total Stus.		9	40	56	23	41	77	114	324
	Occupational Groups		Ag. Prod. & Ag. Business	Business	Sk. Trades Trans.	Technicians	Public Service	Ag. Professions	Other Professions	TOTAL

TABLE 19

THE NUMBER OF VOCATIONAL CLASSES TAKEN BY MALE 11TH AND 12TH GRADE STUDENTS AT WHITE PINE COUNTY HIGH SCHOOL GROUPED ACCORDING TO THEIR OCCUPATIONAL CHOICE BY CATEGORY

Auto		-	_	-				Num	ber	of	locat	ion	Number of Vocational Classes	asse	S		T0+2	Average
3 1 2 34 1 2 34 1 2 34 1 2 34 1 2 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <td>Total Did Voc. Stus. Not Ag.</td> <td>ران ما</td> <td>VC AE</td> <td>Voc.</td> <td>A M</td> <td>ito ech.</td> <td></td> <td>Carp Wood Work</td> <td></td> <td>Weld Med</td> <td>ling tal</td> <td></td> <td>Draft- ing</td> <td></td> <td>Elec tron ics</td> <td>DE</td> <td>Total No. Classes</td> <td>Average Classes Per Stu.</td>	Total Did Voc. Stus. Not Ag.	ران ما	VC AE	Voc.	A M	ito ech.		Carp Wood Work		Weld Med	ling tal		Draft- ing		Elec tron ics	DE	Total No. Classes	Average Classes Per Stu.
1 2 1 1 3 15 2 5 1 1 5 2 21 1 1 8 21 11 7 7 11 2 4 5 247 6 3 1 1 4 1 2 19 19 19 7 1 2 4 1 1 2 2 39 39 2 3 1 2 3 1 4 19 19 5 3 1 1 4 5 2 55 1 31 2 1 10 4 5 2 55 1 31 3 4 16 3 4 15 1	1 2	1		 3	1 1			2	#	1 1	1 1		1 1	#		П		
1 8 2 2 2 1 1 2 3 1 1 2 4 5 247 4 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 4 1 19 4 1 19 4 1 19 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 3 1 3 1 <td>6 1</td> <td></td> <td></td> <td></td> <td>က</td> <td></td> <td>-</td> <td>2</td> <td></td> <td>Н</td> <td></td> <td><u> </u></td> <td></td> <td></td> <td></td> <td></td> <td>15</td> <td>2.5</td>	6 1				က		 -	2		Н		<u> </u>					15	2.5
1 8 21 12 11 7 7 11 2 4 5 247 4 3 1 1 4 1 2 19 19 7 1 2 4 1 1 2 39 39 2 3 1 2 3 1 4 19 19 5 3 1 2 1 10 4 5 2 55 1 31 3 1 1 4 5 2 55 1 31 3 1 1 4 5 2 55	13 3					Н	5	Н	Н			<u></u>			2		21	1.6
3 1 1 2 1 2 19 7 1 2 4 1 1 2 39 2 3 1 2 3 1 4 19 5 3 1 10 4 5 2 19 1 31 32 1 10 4 5 2 55 1 31 32 18 20 9 8 34 16 3 18 9 415	62				25 1				12	11				7			247	4.0
7 1 2 4 1 1 2 3 1 4 19 2 3 1 2 3 1 4 19 5 3 2 1 10 4 5 2 55 1 31 32 18 20 9 8 34 16 3 18 9 415	12 2				7		رب		H								19	1.6
2 3 1 2 3 1 1 4 19 5 3 2 1 10 4 5 2 55 1 31 32 18 3 3 4 15 3 4 15	15 2 1 1				∞			Н	2	4			01		7		39	2.6
5 3 2 1 10 4 5 2 55 1 31 32 18 20 9 8 34 16 3 18 9 3 18 9 415 415	11 1				2	1			ı	2				Н	7		19	1.7
1 31 32 18 20 9 8 34 16 3 18 9 415	43 16				4	2	5			2	н	<u> </u>					55	1.3
	162 25 1 1	F-1	1	 1	7 97			32	18		6		4 16	3	1		415	2.5

TABLE 20

THE NUMBER OF VOCATIONAL CLASSES TAKEN BY MALE 11TH AND 12TH GRADE STUDENTS AT YERINGTON HIGH SCHOOL GROUPED ACCORDING TO THEIR OCCUPATIONAL CHOICE BY CATEGORY

	Average Classes Per Stu.		2.0	1.6	3.5	2.0	2.2	2.6	1.6	2.1
	Total No. Classes		9	∞	32	10	22	23	94	147
	DE	-	\							
S	Elec tron ics	1 2								
lasse	Draft- ing	3+							ന	e,
a1 C	Draf ing	1 2		2	5	3 1	. estr	H	4	9
ion	4.0	3+					<u></u>	<u> </u>	12	29
Number of Vocational Classes	Welding Metal	1 2 3	. 2		4			က	m	2
19	•	3+							·	2 12
fumb	Carp. Wood Work	2							H	2
	2 2 2		H		7	7	2	m	7	23
		#	······································				H			न
	Auto Mech	7			7					2
	• •			-	9	2	2	Н	i	12
	Voc. Ag.	#				',	H	m		4
	Voc Ag.	2		H	7		2	Н		7
1	<u>_</u>				7	 ,-		7	5	11
	Did Not Take			<i>'</i>				8	7	11
	Total Stus.		m	Ŋ.	6	٧	10	6	28	69
	Occupational Groups		Ag. Prod. & Ag. Business	Business	Sk. Trades Trans.	Technician	Public Service	Ag. Professions	Other Professions	TOTAL

TABLE 21

NUMBER OF VOCATIONAL CLASSES TAKEN BY MALE 11TH AND 12TH GRADE STUDENTS AT FERNLEY HIGH SCHOOL GROUPED ACCORDING TO THEIR OCCUPATIONAL CHOICE BY CATECORY

		_								Numbe	(o, 1	£ Vo	Number of Vocational Classes	na1	Clas	ses				
Occupational Groups	Total Stus.	I id Not		Voc.	41	7 74	Auto	~ i		Carp. Wood		Welding Metal	ing al	Q	Draft- ing		Elec tron	DE	Total No.	Average Classes
		Take								Work						-17	ics		Classes	Per Stu.
			1	2	34	щ	7	3+		2 3	3+	1 2	3	1	2 3	37	1 2	rest		
Ag. Prod. & Ag. Business	8			H					-	7		-		. Inneridan (100 m.)					5	2.5
Business	က	3		-								Н							7	1.2
Sk. Trades Trans.	6		7	7	m				4	2		2 2		 -	2				31	3.4
Technician	7.	r-1							-					Н					2	1.0
Public Ser.	 1																		7	2.0
Ag. Professions	Ŋ				H				7			2	- •	p-4					10	2,0
Other Professions	9				,				-	H		7		<u> </u>					9	1.0
TOTAL	28	5	4	5	4				10	4		7 3		9	က	 			09	2.1
																				The same named of the last of

TABLE 22

THE NUMBER OF VOCATIONAL CLASSES TAKEN BY MALE 11TH AND 12TH GRADE STUDENTS AT LINCOLN HIGH SCHOOL GROUPED ACCORDING TO THEIR OCCUPATIONAL CHOICE BY CATEGORY

	Average Classes Per Stu.				2.6	2.0		.2	6.	1.2
	Total No. Classes		o '	, ,	14	10	7	-	80	35
	DE	1								
S	Elec tron ics	1 2								
Number of Vocational Classes	Draft- ing	1 2 3+								
ation	7 8u	#			 1	 -				2
Voca	Welding Metal	7			7		H		т т	2 4
r of	13	3+ 1								
Mumbe	Carp. Wood Work	2								
				·						
	ं सं	3			-	2				м
	Auto Mech.	2			2					4
		[<u></u>		- 7	4
	Voc.	#								
	A A	2								
	Did Not Take	1			m	7	7	4	9	17
	Total Stus.		Н	<u> </u>	9	2	m	۲Ŋ	6	29
	Occupational Groups		Ag. Prod. & Ag. Business	Business	Sk. Trades Trans.	Technician	Public Ser.	Ag. Professions	Other Professions	TOTAL

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The total vocational classes were calculated as shown in Tables 16 through 22 by classifying all of the students who took one, Table 23 is a summary of the number of vocational classes taken by 11th and 12 au h grade students. three or more vocational classes. The average was 2.4 vocational classes per student, There were 892 students classified according to their occupational choice by category. two,

trades and/or transportation and mining are enrolling in vocational courses to a fairly high degree and The primary meaning of the table is found in the average number of vocational classes taken according only eight per cent had taken no vocational classes. It also appears that students who plan to enter each occupational group. Students planning to enter agriculture averaged about four classes per than one per cent are taking no vocational classes. the less and **1**0

courses with 39 per cent having taken no vocational classes and those who have taken them average slightly It would appear that students planning to enter the professions are not overloading with vocational more than one vocational course. In studying Tables 16 through 27, it should be noted that the schools that have vocational agriculture It appears that vocational agriculture teachers are doing a good job in directing their generally have a higher percentage of students who select agriculture professions compared to those who students into the agriculture professions. do not have it.

It has been explained viously that the length of classes is an important factor in evaluating vocational programs. The length of the periods was not counted separately in this or other tables. taking a double period were counted as taking one class.

TABLE 23

SUMMARY OF THE VARIOUS OCCUPATIONAL GROUPS RANKED ACCORDING TO THE AVERAGE NUMBER OF COURSES TAKEN BY 11TH AND 12TH GRADE MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS

Occupational Groups	Total Students	Total Vocational Classes*	Average Voc. Classes Per Student	% Taking No Voc. Classes
Agriculture & Agriculture Business	63	254	4.0	8.0
Skilled Trades & Transportation	245	988	3.6	7.
Technician	89	179	2.6	12.0
Public Service	85	187	2.2	15.0
Agriculture Professions	92	171	1,8	7°
Business (Sales & Service)	78	133	1.7	21.0
Other Professions	261	351	1.3	39.0
TOTALS	892	2,161	2.4	

Semester classes *Method of calculation - 1 class X 1, 2 classes X 2, 3 or more classes X 3.

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THAPTER II

The extent to which Students' Vocational Choice by Category Agrees with Their Reason for Taking Vocational Classes. Section 5:

25, and 26 are directed to the contributing objective of determining the extent to which The first step determination is to discover the reason given by students for taking vocational classes. the vocational choice relates to the expressed reason for taking vocational classes. classifies responses by schools. Tables 24, such

(3) ease of course work, with possible attention toward improving grade average; This latter included both liking for vocational teachers and enrollment on Boys were asked to give the single best reason and their answers Thus the number is smaller, but these are the students who should assistance toward Here only tenth, eleventh, and twelfth graders were asked to respond, and those only if they had (5)no special reason except interest or personal interest; a reasoned response. taken one or more vocational classes. counselor or teacher. ing career objectives; (1)classified as: ce of counselor. be more capable of **(4)** were meet advi and

The largest percentage (48 percent) stated that they had enrolled in vocational classes for no reason other than personal interest. Forty-two per cent saw these classes as assisting them in achieving occupa-Six per cent took these classes because they considered them easy, and four per there because they liked the teacher or had been advised by a counselor to enroll, tional objectives. were

þe These findings present some questions when compared with Tables 14 through 23 where there seemed to

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Such an explanation would offset the somewhat discouraging figure of 42 per cent who see these some relationship between occupational choice and vocational classes. It may be argued that the occupacional choice resulted from the vocational courses which in turn were originally taken only because of classes as furthering career objectives. interest.

to assist the student in preparing for an occupation; fewer than half of the boys view them in this light. Obviously, then, whether or not these classes are meeting their objective, they are certainly not seen as The vocational courses are This is a question which needs some very serious thought and study. However, the situation does indeed warrant further investigation. doing so.

of high school boys are being permitted, even encouraged, to prepare for a college education which may be counseled into vocational courses. Over and over this study supports the view that an unrealistic number our per cent in the "counselor or teacher" would seem far too low. Granted that among sound educational The figure of six per cent of boys who regard the vocational classes as easy is not alarming, but motives, liking a teacher does not hold high priority, it is quickly evident that very few boys both unnecessary and unsuitable.

It is regrettable to further career objectives increases from tenth through twelfth grade. Whether this is due to increased One encouraging finding does emerge in this table. The percentage of boys taking vocational classes maturity or increased realism in occupational choice cannot be determined from the data. that the number of boys who receive counseling to this end does not also increase.

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TABLE 24

MALE VOCATIONAL STUDENTS' BEST REASON FOR TAKING VOCATIONAL CLASSES IN SELECTED NEVADA HIGH SCHOOLS*

			Number	cs and	Numbers and Percentages of Students by School	ages o	f Studer	ıts by	Schoo1			
Reasons Given	Churchill	hi11	Elko		Wooster	er	E1y	Å	Lund	ld.	Lincoln	-ln
	No.	%	No.	6%	No.	%	No.	%	No.	%	No.	%
Personal Interest	82	45	74	42	141	53	102	48	6	50	ω	36
Assists Career Objectives	98	47	91	52	66	37	90	42	3	16	œ	36
Classes are Easy	11	9	6	5	15	9	13	9	0		4	18
Counselor or Teacher**	٦	3	۲۷	Н	13	2	∞	4	9	33	4	18
TOTAL RESPONDING	184		176		268		213		18		24	
			TABLE 24 - Continued	- Con	ıtinued							1

							Schools	Schools Combined			
Reasons Given	Yerington	gton	Fernley	ey	Smith	h	Gre	Grade Level by %	y %	Total	al
	No.	%	No.	%	No.	%	10	11	12	No.	%
Personal Interest	20	57	18	55	5	71	52	45	45	489 48	48
Assists Career Objective	30	33	11	33	2	29	36	97	45	420	42
Classes are Easy	4	2	2	9	0		7	2	5	58	9
Counselor or Teacher**	4	5	2	9	0		4	က	5	77	4
TOTAL RESPONDING	88		33		1-		379	323	301	301 1,011	

, pr *Includes only 10th, 11th, and 12th grade students who have taken vocational classes. **Includes, I like teachers, and counselor advised me to enroll.

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Table 25 shows students' stated reasons for taking vocational classes arranged by occupational choice schools are apparently doing the best job of vocational training in agriculture, with 62 per cent stating furtherance of career objectives, one quickly sees those fields in which the vocational classes are perceived as meeting their objective of preparing youth for the world of work. Using this criterion, the By combining the reasons not related to career objectives and contrasting them with the that they enrolled in these classes to assist their career objectives. categories.

per cent giving this reason. In spite of the findings of Tables 16-22, that few of the boys wishing Skilled trades and mining and transportation students are slightly less aware of assistance, with to become technicians have had opportunity to take carear-related classes, some 42 per cent give this reason

less than the 30 per cent of those wishing to enter professions. This corroborates the findings in Tables 16 through 22, that the schools apparently are not serving these boys well. per cent of these feel that their vocational classes are helping in their career objectives. The apparent lack is among those students wishing to enter business and public service.

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TABLE 25

THE OCCUPATIONAL CHOICE BY CATEGORY OF MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS GROUPED ACCORDING TO THEIR BEST REASON FOR TAKING VOCATIONAL CLASSES

						,		
Occupational Groups	Assists Car Objective No. %	Assists Career Objective No. %	No Spec Except No.	No Special Reason Except Interest No.	Teacher, & Easy No.	Teacher, Counselor & Easy Classes* No. %	Total No.	%
Production Ag. & Off-Farm Ag. Business	64	62**	30	29**	6	**6	103	10
Skilled Trades Trans, & Mining	197	55	129	36	31	6	357	36
Business (Sales & Service) Public Service	32	20	103	.65	24	15	159	16
Technician	34	42	39	48	œ	10	81	œ
Agriculture Professions	30	29	<i>L</i> 9	65	9	9	103	10
Other Professions	61	30	118	59	22	11	201	20
TOTAL WITH EACH REASON	418		486		100		1,004	
PER CENT OF TOTAL		42		48		10		

**The percentage is calculated on a horizontal line basis only for the three reasons for taking vocational classes. *Includes I like teachers, classes are easy, and the counselor advised me to enroll.

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However, since the larger schools contribute the bulk of the students, where more Table 26 lists only responses from those 11th and 12th graders who have taken two or fewer vocational While the 48 per cent stating that they have not taken more classes because of failure to meet intention of entering a profession. Of much greater concern should be the 36 per cent who have not had further opportunity because of schedule conflict. Naturally in the smaller schools this can become career objectives appears large, it must be read in connection with the large proportion who sections of a class can be offered, this may be a point on which some real work can be done. insurmountable problem. classes.

Naturally the school The "other reasons" category also implies criticism of the schools. This includes failure to offer to deprive students of needed education obviously needs some help. Finally, if many students feel they cannot offer every class in which a particular siudent might be interested. Nevertheless, it might beevery student is going to like every teacher, of course, but any teacher who is sufficiently disliked hoove the vocational education departments to evaluate their offerings for relevance and salience. of teachers is another point where the schools might need to take a long hard look at themselves. know enough about the course without taking it, the content needs to be scrutinized. courses, dislike of teachers and a feeling of adequate knowledge without the class. education, vocational or otherwise, is to teach that which was not previously known. meet this aim, they should be revised or eliminated.

Only one The column decision of parents is of particular interest to many vocational educators. per cent of the students indicated they did not take vocational classes because of parents

affects the student. Thus it is most difficult to measure, In the research done in 1968 (Table 72 in the The influence of the parent on vocational choice is highly important, but subtle and indirect as it appendix) very few students disagree with their parents as to their occupational choice of a vocation.

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REASONS GIVEN BY 11TH AND 12TH GRADE MALE NEVADA HIGH SCHOOL STUDENTS FOR NOT HAVING COMPLETED MORE VOCATIONAL CLASSES* TABLE 26

		Numbers a	Numbers and Percentages	s of Students by School	by School	
Keasons Given	Churchill No. %	E1ko No. %	Wooster No. %	E1y No. %	Lund No. %	Lincoln No. %
Fails to Meet Career Plans	47 47	39 48	138 57	59 55	0	4 14
Schedule Conflict	41 41	31 38	80 33	33 30	0	8 30
Other Reasons**	10 10	11 14	22 9	16 15	0	15 56
Decision of the Parent	1 1	н	4 1	0	0	0
TOTAL RESPONDING***	66	82	244	108	0	27
		TABLE 26 - Co	- Continued	Schoo1s	Schools Combined	
Reasons Given	ing	Fernley	ith	Grade L	Level by %	비비
	No.	No. %	No. %		12	No. %
Fails to Meet Career Plans	19 41	4 17	2 9	97	55	312 48
Schedule Conflicts	22 45	14 61	5 23	39	30	234 36
Other Reasons**	6 13	5 22	15 68	14	. 14	100 15
Decision of the Parent	1 2	0	0	Н	Н	7 1
TOTAL RESPONDING***	48	23	22	344	265	653

*Students were forced to choose the one best reason. **Includes not offered in the school, does not like the teacher, and adequate knowledge without taking classes.

***Includes mainly 11th and 12th grade students who had taken two or less vocational classes.

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CHAPTER II

Section 6 - Students' Evaluation of the Strengths and Weaknesses of Their Vocational Programs

In the determination of the extent to which the schools are providing vocational training in accordance how students appraise the vocational classes taught in the high schools. Tables 27 through 37 speak to this the expressed occupational choice of the students, the final contributing objective is to discover objective. with

In Table 27 the students who had taken vocational classes were asked whether they perceived these value. Eighty-three per cent felt that the classes were indeed important. There were no significant as important, where something of real value was learned, or unimportant, with the jobs done of little differences among schools.

through twelfth grade. This decline is not large enough for statistical significance, but it is consistent The main question raised by these figures is why there is a steady decline in satisfaction from ninth enough to merit further investigation.

TABLE 27

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MALE STUDENTS' EVALUATION OF THE WORTH OF VOCATIONAL CLASSES TO THEM IN SELECTED NEVADA HIGH SCHOOLS

		Numbe	ers and	Numbers and Percentages of	of Stude	ents b	Students by School	01		
Griteria	Churchill No. %	E1ko No.	9	Wooster No. %	E1y No.	84	Lu No.	Lund	Lincoln No. %	in %
Important-Learning Something of Real Value	225 86	195	85	233 81	211	51	21	88	19	88
Unimportant-Jobs Done are of Little Value	38 14	35	15	56 19	51	19	က	13	က	14
TOTAL RESPONDING*	263	230		289	262		24		22	
		TABLE 27	- Continued	penı			,			
Criteria	Yerington	n Fernley No. %	1ey %	Smith No. %	Schoo Gra	Schools Combined Grade Level by 9 10 11	bined rel by 11	12	Totals No. 7	S %
Important-Learning Something of Real Value	108 86	35	78	7 100	87	85	83	79	1,054	83
Unimportant—Jobs Done are of Little Value	18 14	10	22	0	13	15	17	21	214	17
TOTAL RESPONDING*	126	45		7	209	399	343	317	1,268	
				,						

*Includes only students who have taken vocational classes.

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Also predictably, of those who are taking vocational classes because of individual interest, 81 per cent learning material of real value. On the other side of the picture, while only nine per cent of students thus motivated find classes unimportant, 43 per cent of those taking them because they are thought easy, students who are taking classes to further vocational objectives find them important and that they are Table 28 classifies the students' opinions of the value of vocational classes according to their The response is almost perfectly as one would have predicted. Those because they like the teacher or on advice of a counselor feel they are doing jobs of little value. find them important and valuable. motives for taking the classes.

TABLE 28

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MALE STUDENTS' IN SELECTED NEVADA HIGH SCHOOLS BEST REASON FOR TAKING VOCATIONAL CLASSES GROUPED ACCORDING TO THEIR EVALUATION OF THE WORTH OF THE SHOP OR CLASS WORK

		Evalua	ation of the	Evaluation of the Worth of Classes		
Reasons	Important-Lear	Important-Learning	Unimport	Unimportant-Jobs Done	Total	 11
	No.	% % % % % % % % % % % % % % % % % % %	No.	%	No.	%
Assists Career Objectives	376	91*	36	*6	412**	45**
No Special Reason Except Interest	380	81	88	19	**697	48**
Teacher, Counselor or Easy Classes	51	57	38	43	**	**6
TOTAL IN EACH RATING	807		163		970	
PER CENT OF TOTAL		83		1.7		

**Includes the number and percentage of students who selected each of the three reasons. *The percentages are calculated on a horizontal line basis only.

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In Table 29 the students' opinions of the worth of their vocational classes are categorized according This again is as one would expect. In general teachers tend to aim their presentation toward 70 per cent of the "F" students feel the courses are important and that they are learning something of The brighter students occasionally are bored their average grades in English and mathematics. The only perceptible difference in satisfaction is found in those on both ends of the grading scale. That is, while 80 per cent of "B" students, 83 'C" students and 87 per cent of "D" students express satisfaction, only 68 per cent of the middle of the range, where the bulk of the students are. are not challenged according to their ability. l value. the real and and

The information obtained from teachers grades given to vocational students, not included in this report, lable 29 who received grades of "F" probably had poor attendance or other objectional traits rather than They possibly are frustrated because of a general dislike This fact was supported in research They probably don't fit in a vocational The 3 per cent of Very few vocational students receive grades of "D" or "F". icated that the average grade in all vocational classes was a "B". school or have other academic or emotional problems. insufficient achievement in class or shop work. better than any other class. in 1968. done indi in I for any

A comparison between the percentage of the grades for all students (Table 8) compared with One of the common complaints of vocational teachers is that their classes are dumping grounds for ents who have completed two or more vocational classes (Table 29) is as follows: students.



Total Students	1,807	1,255
ĽΊ	н	2
D	24	28
၁	20	52
В	20	16
A	4	7
Grades (English & mathematics)	All students (in per cent)	Students with 2 or more vocational classes

above comparison demonstrates that the academic grades in English and mathematics are slightly lower The 553 students who did not take vocational classes obviously were highest achievers in English and mathematics. the students who have two or more vocational clases.

should be, on the world of work rather than the professions. There are, however, a sizeable number The above percentages are about what one would expect because the focus of vocational programs is, good students in the vocational programs. There is nothing in this study to support the idea that vocational classes are a wholesale dumping ground for poor students. In Table 29, it is important to note, that all of the students who received grade C, D, F, 863 said who said their classes were unimportant and the jobs done were of little value. This is a ratio or more their vocational classes were important and they were learning something of real value compared to 162 than five to one. This appears to be a strong endorsement for vocational programs that students feel ey are learning something of real importance in spite of the grades they receive.

Total students	367	327
Ξ 4 ,	0	0
Д	4	4
S	34	29
М	48	51
A	14	16
* Average grades all vocational classes	11th (in percent)	12th (in percent)

Student must have completed at least two vocational classes.

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TABLE 29

MALE STUDENTS' EVALUATION OF THE WORTH OF SHOP OR CLASS WORK GROUPED ACCORDING TO THEIR AVERAGE GRADES IN ENGLISH AND MATHEMATICS

				A	verage	Average Grades						
Criteria	A No.	8	No.	6%	No.	8	No.	8	F. No.	%	Total No.	a1 %
Important-Learning Something of Real Value	21	2*	160	160 15*	542	542 52*	305	305 29*	16	16 2*	1,044 83	83
Unimportant-Jobs Done are of Little Value	10 5	5	39	39 18	110 52	52	45 21	21	7	က	211 17	17
TOTAL WITH EACH GRADE	31		199		652		350		23		1,255 **	*
PER CENT OF TOTAL		2		16		52		28		2		

*The percentages are calculated on a horizontal line basis only for each average grade. **Includes only students who have taken two or more vocational classes.

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students feel the length of the class is about right to get the work done and 46 per cent feel classes Table 30 gives the students' evaluation of the length of vocational classes. Forty-eight per cent of too short. The latter raise the question of whether the teacher is unrealistic in his demands or whether interest is so high that the boys would like to continue in this pursuit longer the

period for one semester to three periods for a full year. It would have been most enlightening if we could Table 14 indicates that vocational classes are organized in many different lengths ranging from one have tied this question to the actual length of periods in which the student is enrolled.

This was done in a different question reported in Table 37. Students were asked to make specific suggestions to improve their vocational programs. In that table the younger the student the more frequently shortness of period was listed as a common complaint,

gation is needed to determine why almost half of the students say their vocational classes are too short. equipment--and to Table 35--the quality of teaching. One problem observed by the researcher is that Study needs to be made to find ways and means of making whatever time that is available most productive. many one-period classes (usually 7 to 9th grades) have too many students in the class for the space and It would appear that the response to this question may relate to Table 36--availability of The student then becomes frustrated and may learn to dislike the classes. equipment. and

There is probably no reason for concern about the six per cent who feel that the classes are too long

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TABLE 30

MALE STUDENTS' EVALUATION OF THE LENGTH OF VOCATIONAL CLASSES IN SELECTED NEVADA HIGH SCHOOLS

			Nu	mbers	Numbers and Percentages	centag	es of S	tudent	of Students by School	hoo1		
Criteria	Churc	hi11	Elko	0	Wooster	er	Ely	ΓΛ	Lund	ď	Lincoln	oln
	No. %	%	No.	%	No.	%	No.	%	No.	%	No.	%
About Right to Get Work Done	117	44	126	54	108	37	152	57	14	58	14	64
Too Short	144	54	26	41	170	58	95	36	10	42	5	23
Too Long, as a Result Students Get Bored	5	2	11	Ŋ	15	5	17	7	0		က	14
TOTAL RESPONDING*	266		234		293		264		24		22	
		TABI	TABLE 30 -	Continued	nued							
Criteria	Yerin	ton	Fern16	Þ	Smith	, , -	Schoo	SI	Combined		To+of-	-
	No. %	%	No.	 89	No.	%	6	1 -	11	12	124	%
About Right to Get Work Done	99	49	18	35	က	43	48	44	48	52	919	48
Too Short	51	37	21	41	4	57	45	20	47	43	597	95
Too Long, as a Result Students Get Bored	17	14	12	24	6		œ	9	7	Ŋ	80	9
TOTAL RESPONDING*	132		51		7		220	404	346	323	1293	

*Includes only students who have completed vocational classes.

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taking these classes. Of those students who are taking these classes to further their career objectives, greatest tendency to this feeling is found among those boys who are taking them because of a teacher or In Table 31 the students' evaluation of the length of classes is compared with their reasons for the overwhelming majority (97 per cent) feel that the classes are either about right or too short. Generally speaking they do not tend to feel that the classes are so long that they are boring.

more work accomplished, while only three percent feel that the class is too fast or too difficult. Again Table 32 shows that 79 percent of the boys who have taken vocational courses feel that the rate of move through the grades from ninth to twelfth. One possible explanation is that added maturity brings movement from satisfaction with the progress toward a wish for more work and a faster pace as the boys progress in these classes is about right. Eighteen percent feel that the pace could be stepped up and an increasing awareness of how much they need to learn. Another suggestion might be that the teachers there appears to be no appreciable difference among schools. There is, however, a slight but steady are not expecting as much of the older boys as they should.

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TABLE 31

MALE STUDENTS' IN SELECTED NEVADA HIGH SCHOOLS BEST REASON FOR TAKING VOCATIONAL CLASSES GROUPED ACCORDING TO THEIR EVALUATION OF THE LENGTH OF CLASS PERIODS

			Leng	Length of Class Periods	Periods			
Reasons	Too S	Too Short	Too Long	1	About	About Right	Total	
	• ON	4 %	No.	~	No.	%	No.	%
Assists Career Objective	210	50*	T	3*	195	47*	416	42
No Special Reason Except Interest	211	7 7	29	9	237	50	477	48
Teacher, Counselor or Easy Classes	38	41	12	13	42	97	92	5 0
TOTAL IN EACH EVALUATION	459		52		474		985	
PER CENT OF TOTAL		47		ī		48		

*The percentages are calculated on a horizontal line basis only for each length of class

period.

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TABLE 32

MALE STUDENTS' EVALUATION OF THE RATE OF PROGRESS IN CLASS AND SHOP WORK IN SELECTED NEVADA HIGH SCHOOLS

			Num	Numbers	and P	Percentages	ages o	of St	Students by School	by Sc	hoo1	
Griteria	Churchil1	hi11	E1ko		Wooster	ter	Ely		Lund		Lincoln	g
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
About Right	219	84	187	80	230	62	198	9/	13	54	17	77
Too Slow-Wish More Were Done	38	15	37	16	51	18	58	22	11	94	5	23
Too Fast or Too Hard	က	1	10	4	10	ო	9	7	0		0	ļ
TOTAL RESPONDING*	260		234		291		262		24		22	
		TABLE	32 -	Continued	panı							
Criteria		ßt	Fernley		Sm	Smith "	Schoo	de L	Schools Combined Grade Level by %	ed 13	Totals	N P
	og	۶۷	NO.	8	og	۷	אי	3	#	71	NO.	9
About Right	98	77	33	75	9	98	98	82	78	72	1,001	79
Too Slow-Wish More Were Done	22	17	7	16	-	14	σ	14	20	26	230	18
Too Fast or Too Hard	7	9	4	6	0		5	3	2	3	40	8
TOTAL RESPONDING*	127		77	,	7		205	403	343	317	1,271	

*Includes only students who have taken vocational courses.

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counselor or teacher motivation. They may be largely a group of students who are possibly having problems level of difficulty involved. Most of the boys (76 per cent) feel the progress is satisfactory. There something of real value in their vocational classes. This could be a distinct credit to the vocational In studying Table 33 one comes to the conclusion that the reason for taking vocational classes has very little effect on the students' appraisal of the pace set, the amount of work accomplished and the is nothing in the study to indicate the type of student enrolled in the vocational classes because of in all classes. Table 28 indicates, however, that 57 per cent of this group feel they are learning

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TABLE 33

MALE STUDENTS' IN SELECTED NEVADA HIGH SCHOOLS BEST REASON FOR TAKING VOCATIONAL CLASSES GROUPED ACCORDING TO THE STUDENTS' EVALUATION OF THE RATE OF PROGRESS IN VOCATIONAL CLASSES

	Total %	6.9	5 48	6 6	13	
	No	617	475	68	683	
တ	About Right No. %	¥6Z	78	29		9/
Rate of Progress	Abou No.	326	365	09	751	
Rate of	Too Slow-Wish More Work Done No. %	20*	20	24		21
	Too S More No.	88	94	21	204	
	Too Fast or Too Hard No. %	*	የ ን	6		ო
	Too Fast (Too Hard No.	4	16	œ	28	
	Reasons	Assists Career Objective	No Special Reason Except Interest	Teacher, Counselor or Easy Classes	TOTAL IN EACH EVALUATION	PER CENT OF TOTAL

*The percentages are calculated on a horizontal line basis only.

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is valid, the results in this table are entirely logical. The proportion of those who are satisfied with feel more work could be accomplished are slightly more apt to be found among the "A" and "B" students. The progress of vocational classes is compared with average grades in English and mathematics in the pace follows very closely the total grade distribution. Those who feel the pace is too slow, who If the assumption that these grades are representative of a student's overall performance Those in the "F" group are slightly more apt to regard the classes as too rapid or too difficult.

TABLE 34

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MALE STUDENTS' EVALUATION OF THE RATE OF PROGRESS IN VOCATIONAL CLASSES GROUPED ACCORDING TO THEIR AVERAGE GRADES IN ENGLISH AND MATHEMATICS

				A	verage	Average Grades						
Rate of Progress	A No.	8	B No.	8	No.	5-8	No.	6%	H No.	%	Total No.	%
Too Fast	0		7	7 18	18 46	46	10	25	4	11	39	က
Too Slow	œ	4	52	23	124	54	44	20	0		228	18
About Right	23	2	137	14	515	52	297	30	19	2	991	79
TOTAL WITH EACH GRADE	31		196		657		351		23		1,258	
PER CENT OF TOTAL WITH EACH GRADE		2		16		52		28		2		

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who is outstanding, either as a "good" teacher or as a "bad" teacher, affects a much higher proportion of Two dimensions were suggested, the teacher's preparation for This is logical, since the teacher Students could rate teachers as excellent, good, fair or very In the question to which the responses are indicated in Table 35, boys who had taken vocational the total enrollment in a small school. In many cases he is the only vocational teacher employed. significant differences among schools, with three-fourths of the respondents rating spite of this, when 42 per cent of the boys in a school rate their teachers as fair to very poor, poor. For purposes of tabulation, good and excellent were combined as were fair and very teachers good to excellent and the other fourth considering them very poor to fair. owest percentages of "good" teachers were found in smaller schools. investigation should be made, even if this only represents 21 boys. courses were asked to rate their teachers. the class and the amount of help he gave. there are no

actually have better teachers or they are more tolerant. Of course, there are other possible explanations. rell be the more advanced classes where one would expect to find more attention given to helping students. If, on the other hand, they were taking classes at the time of the survey, they might It is interesting to note that seniors seem to have the best of it in this regard. Either they to have more some time has lapsed since their experience with vocational classes, they may tend avorable views.

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Often the students had to give one rating for two or more teachers. Asking students to rate several vocational teachers with only one rating left a great deal esired as an evaluative technique.

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For example, students often wrote in on the blank, one teacher excellent, and the other teacher very poor. There was little doubt that students could and would identify good as well as poor teachers. many schools there appeared to be in many cases a rather strong concurrence of opinion. In

TABLE 35

MALE STUDENTS' EVALUATION OF VOCATIONAL TEACHER/S/ AS TO PREPARATION FOR THE CLASSES IN SELECTED NEVADA HIGH SCHOOLS

			Number	s and F	Numbers and Percentages	ages o	of Stude	ints by	Students by School	린		1
Criteria	Churchill No. %	hi11	E1ko No.	/%	Wooster No.	%	E1y No.	N. 6%	Lu No.	Lund	Lincoln No.	11n/%
Good to Excellent	204	77	153	87	232	62	172	65	22	92	18	83
Fair to Very Poor	61	23	30	12	09	21	93	35	2	∞	4	18
TOTAL RESPONDING*	265		233		292		265		24		22	
		TAI	TABLE 35	- Continued	inued							
							Scho	ols Cor	nbined			}
Criteria	Yerin No.	Yerington No. $\%$	Fernley No.	ey %	Smith No.	%	Grade 9	Leve.	Grade Level by % 9 10 11	12	Total No.	%
Good to Excellent	81	64	29	58	9	85	72	75	72	80	296	75
Fair to Very Poor	49	37	21	42	Т	14	28	25	28	20	321	25
TOTAL RESPONDING*	130		50		7		218	401	347	322	1,288	

*Includes only students who have taken vocational classes.

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satisfactory Two-thirds of these As a general rule the smaller schools are more handi-Table 36 shows the students' exaluation of the tools, equipment and space for projects and shop About half of the students in the schools at Ely There are variations Lund, Lincoln and Yerington definitely think they are handicapped for tools and space to do a The 1,262 responses come only from boys who have taken vocational courses. work. The 1,262 responses come only from boys who have taken vocational courboys feel that the physical facilities are adequate for the jobs to be done. capped for tools and space than the larger ones. among schools, some of these are very distinct. job in their vocational classes.

particular class but the fact they offer only one class would indicate they may need space and equipment The information in Smith Valley must be considered in light of Table 14 which indicates only one The students are satisfied with the tools and space for this a more comprehensive vocational program, vocational class is taught in welding.

Some investigation needs to be made as to the causes for the thought the classes were worthwhile. In Table 32, again, the older the students the less he was satisof particular importance since instruction for the older students should be more vocational in nature This is the same as in Table 27 where the older the student the less Again there is a trend toward less satisfaction with the tools, equipment and space for projects increased dissatisfaction experienced by the boys as they grow older and move through the grades. and the content of the classes directed to training for initial job entry competency ed with the rate of progress in the class. boys move through the grades.

TABLE 36

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MALE STUDENTS' EVALUATION OF THE TOOLS, EQUIPMENT, SPACE FOR PROJECTS AND SHOP WORK IN SELECTED NEVADA HIGH SCHOOLS

		Wimbers 8	Numbers and Percentages	s of Students by School	s by Sch	001		
Criteria	Churchill No. %	E1ko No. %	Wooster No. %	Ely No. %	Lu No.	Lund	Lincoln No. %	ln %
Adequate to Get the Job Done	199 76	158 68	231 80	131 51	12	50	10	48
Too Limited	63 24	74 32	58 20	128 49	12	50	11	52
TOTAL RESPONDING*	262	232	289	259	24		21	1
	TA	TABLE 36 - Con	- Continued					
Criteria	Yerington No. %	Fernley No. %	Smith No. %	Schools Combined Grade Level by % 9 10 11	Combined rel by %	12	Totals No.	s %
Adequate to Get the Job Done	59 47	27 63	98 9	73 68	99	62	833	99
Too Limited	66 53	16 37	1 14	27 32	36	38	429	34
TOTAL RESPONDING*	125	43	7	204 399	343	317	1,262	

*Includes only students who have taken vocational courses.

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or improvements which they feel would enable them to derive greater benefit from their vocational classes. to presume that these were made by the boys indicating dissatisfaction on previous tables, i.e., Tables It lists the suggestions made by students While each boy was asked to make two suggestions, it does not appear that all boys availed themselves It would be logical Therefore, one would anticipate a correlation with those other tables of the opportunity, since the total number of suggestions tabulated is only 886. Table 37 is one which requires a great deal of study. 35, and 36. 27, 30, 32,

In Table 30, 23 per cent A simple comparison of either numbers or per cents cannot be made. An outstanding example of the le apparent difference disappears. Further restrictions on such comparisons appear when one realizes of the respondents found classes too short, and in Table 37, 36 per cent of the suggestions were for onger class periods. Here is an apparent discrepancy. However, further scrutiny reveals that this breaks down to five students who listed classes as too short and four who suggested they be longer. fallacy of this approach can be found in looking at figures from Lincoln County. nat each student had the privilege of making two suggestions.

The appraisal of teachers (Table 35) was compared with a combination of three suggestions, The only valid way of determining whether there is truly a relationship between perceived inadequacies and suggestions for improvement is to calculate coefficients of correlation. Thus the number who stated the class periods were too short (Table 30) was compared with the number suggesting longer class periods. Those who felt the jobs were not worthwhile (Table 27) were compared with suggestions of more beneficial tudent projects.

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adequate equipment, tools, and supplies. All correlations were positive, and three of the four were parison made was the evaluation of tools, equipment and space (Table 36) with the suggestion of better supervision and discipline, improved instruction and better and more teachers. significant at the .01 level; the other was significant at the .05 confidence level

suggestions which they made for improvements. They were not given a list of suggested improvements and asked check those they thought applicable; they made their own suggestions. In this connection, it is inter-Evidently each of these boys is not only generally consistent within himself, but in addition holds much evidence is provided about the consistency of the subjects who were surveyed. The opinions they express As a result of these correlations, some fairly strong statements can be made. First, considerable when asked to evaluate various aspects of vocational education in their schools are reinforced by the esting to note that 91 per cent of these suggestions could be placed in a total of nine categories the same view of the situation as his peers. ţ

The time allotment and the facilities nese factors, and also of the qualifications of teachers, with an eye either to changing the situation or Since these students must become concerns of the schools as they are of the students. A close scrutiny needs to be made of so consistent, within themselves and with their peers, credence is lent to their opinions. The second statement arises from the correlations and from the first statement. presenting the situation as it is to the students in a more favorable light. are implications here that the school would do well to investigate.

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TABLE 37

MALE STUDENTS' SUGGESTIONS FOR THE IMPROVEMENT OF VOCATIONAL CLASSES IN SELECTED NEVADA HIGH SCHOOLS*

			Numb	Numbers and	and Percentages		of Students by School	ents b	y Schoo	120		Ì
Suggested Improvements	Chur No.	Churchill No. %	E1 No.	Elko J. %	Wooster No. %		Ely No.	84	Lund No.	%	Lincoln No. %	1n %
Longer Class Periods	65	44	54	34	65	33	24	13	1	m	4	36
Inadeq. Equip., Tools & Supplies	12	œ	26	18	6	10	26	30	9	15	Н	œ
More Beneficial Student Proj.	13	6	11	7	23	12	11	9	10	25	က	26
Larger and Newer Facilities	14	6	16	10	9	က	31	17	1	က	0	
More & Adv. Voc. Classes	6	9	16	10	6	2	9	က	13	36	1	∞
Better Supervision & Disc.	œ	5	7	4	26	13	15	œ	0		0	
Improved Instruction	4	က	œ	5	7	7	∞	4	5	13	Н	œ
Better & More Teachers	9	7	4	2	11	9	5	က	н	က	Н	œ
Enforced Prerequisites	4	m	ന	2	13	7	က	7	0		0	
Additional Suggestions	14	6	15	6	16	∞	21	12	н	m	П	œ
TOTAL NUMBER SUGGESTIONS	149		160		185		180		38		12	1

TABLE 37 - Continued

Suggested Improvements	Yerington	Fernley	Smith	Schoo] Grade	ols Com	Schools Combined Grade Level by %		Potals	<u>(v</u>
	No. %	No. %	No. %	6		4=	12	No.	8
Longer Class Periods	27 24	7 17	1 17	26	24	21	19	248	28
Inadeq. Equip., Tools & Supplies	27 24	9 22	99 7	15	21	17	19	150	17
More Beneficial Student Proj.	6 6	3 6	0	10	11	11	6	83	6
Larger & Newer Facilities	5 4	0	0	9	6	∞	14	73	œ
More & Adv. Voc. Classes	11 10	5 11	0	11	2	∞	∞	70	œ
Better Supervision & Disc.	е Е	7 17	0	5	∞	11	9	99	7
Improved Instruction	5 4	8 20	0	7	4	က	9	46	5
Better & More Teachers	16 14	2 4	0	5	2	9	5	46	5
Enforced Prerequisites	0	0	0	1	က	က	2	23	က
Additional Suggestions	10 9	2 4	1 17	ω	4	œ	6	81	6
TOTAL NUMBER SUGGESTIONS	113	43	9	175	410	385	320	886	1

*Each student was asked to list two suggestions that if put into practice would help him to benefit from his vocational classes.

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Section 7 - Indicated Interest of Students in Certain Vocational-Type Classes

In Tables 38, 40, and 42 students were asked to check either "I am interested," or "I am not interested," "interested," was tabulated. The main value of these tables is that they show the relative importance by student ranking of the types of classes given. This information is of particular value in planning of vocational programs. Along with the above tables is 39, 41, and 43 which give an indication of the Each set of tables will be Tables 40 and 41 deal with trades and industrial-type degree of interest of students who selected each of the various occupational groups by category. in the general types of vocational classes assuming they could be provided by the school. Tables 42 and 43 deal with business and technical-type classes. 38 and 39 deal with agricultural-type classes. discussed together. classes.

The Ph. D. study by Dr. Christensen, Table 39 indicates the group of students most inter-All schools indicated by 1967, Ohio State University, Education for Off-Farm Agricultural Occupations In Nevada indicated this a large margin that conservation, forestry, recreation, etc. were the subjects of most interest. The agricultural-type classes were grouped in seven major types of classes. category had the largest potential for professional workers in agriculture. ested in this area were students who chose the agricultural professions. interest was nearly the same for each grade in school.

Economics and management of a ranch or business was second with an average of 32 per cent of the

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Table 39 indicates that 83 per cent of the students who selected as an occupational choice agriculture and off-farm business, 45 per cent of the students selecting agricultural professions and 33 per cent of the students selecting business and public service were interested in economics and management of a ranch or business. The information in this table indicates that not only vocational departments but other sections of the school should give more emphasis to this important area. partments but other sections of the school should give more emphasis to this important area students interested.

Table 39 does not contain much that would not be expected except the group most interested in leader-Table 38 indicates the 12th grades The agriculture production, business and public service e higher than the other groups in interest in leadership training. e more interested in leadership training than younger classes. ship training is the college oriented students. ar ar

About one fourth of the students electing business and public service, and skilled trades and transportation are also interested in these types of classes. An examination of the average percentage of each category as a whole indicates students who are planning a future in agriculture production are the most interested in these types of classes. expecting careers in Agricultume professions are next. EXPLANATION OF READING TABLES 39, 41, 43

(Table 2) indicated an occupational choice of the categories The next to last horizontal column gives the number of students who selected each occupational cate-87 students indicated an interest in conservation, etc. gory or categories. For example 155 students Agriculture production and off-farm business. which is 56 percent of the 155.

The average percent of each occupational category was found by averaging the percentages in each The 58% in agriculture production & off-farm business was found by adding the per-This is only a general average and not weighted. and then dividing by seven. vertical column. centages and then

TABLE 38

INDICATED MALE STUDENT INTEREST IN CERTAIN BROAD AGRICULTURAL-TYPE CLASSES IN SELECTED NEVADA HIGH SCHOOLS

			Ž	Mimbers a	nd Der	and Dercentages	ų	4		-		
Agricultural-Type Classes	Churchill	hi11	Elko		Wooster	er	3	The Lund	Lund	cnoor	Lincoln	=
	No.	* *	No.	**%	No.	**%	No.	**%	No.		%**No.	**%
Conservation, Forestry, Etc.*	184	56	167	58	283	53	185	53	16	67	45	60
Econ. & Mgt. of Ranch or Business	122	37	82	29	142	27	110	31	13	54	27	36
Mgt. of Livestock	107	32	81	28	93	18	74	21	13	54	28	37
Leadership Training	73	22	82	29	143	27	9/	22	9	25	15	20
Kange mgt., Soils & Crops	106	32	80	28	103	19	9 9	18	17	71	28	37
Veterinary Medicine	90	27	82	29	103	19	48	14	7	29	24	33
Horticulture	40	12	44	15	99	12	29	∞	m	13	12	16
		TABLE	38	- Continued	panu							İ
			,				Schools	1s Combined	ined			
Agricultural-Type Classes	Yerington	ton	Fernley		Smith	1	Grade	Level	by %		Total	al
	No.	***	No.	**	No.	% * *	6	10	11	12	No.	**%
Conservation, Forestry, Etc.*	86	57	45	74	18	64	58	58	5.7	1 15	170	2
Econ. & Mgt. of Ranch or Business	89	40	35	57	9	21	35	30	33	1 1 1 1 1	•	3 6
Mgt. of Livestock	52	31	25	41	œ	29	30		25	24	481	36 96
Leadership Training	49	53	16	5 6	ന	11	20		28	34	463	25
Kange Mgt., Soils & Crops	7 7	5 6	24	39	6	32	56		25	25	475	25
Veterinary Medicine	37	22	19	31	œ	29	27		22	22	418	23
Horticulture	34	20	ω	13	ო	11	14		13	12	239	13

*Each type of class stands alone as if in a separate table.

**Per cent of the total male students in the study who indicated an interest in certain

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TABLE 39

EXPRESSED INTEREST IN CERTAIN AGRICULTURAL-TYPE CLASSES GROUPED ACCORDING TO THE OCCUPATIONAL CHOICE BY CATEGORY OF MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS

Types of Agricultural Classes	Ag. Prod. Off-Farm	roď.	Skilled Trades,	ed s,	Business, Public	ess,	Tech- nicians	ins	Ag. Profs.	انہ	Other Profs.	
	No.	% %	No.	%	No.	ا اد	No.	%	No.	%	No.	%
Conservation, Forestry, Etc.*	87	56	281	54	164	55	63	97	213	93	229	45 .
Econ. & Mgt. of Ranch or Bus.	129	83	146	28	66	33	24	18	103	45	1.00	20
Mgt. of Livestock	131	84	110	21	59	20	14	10	117	51	48	6
Range Mgt., Soils & Crops	119	9/	114	22	54	18	14	10	123	41	48	6
Leadership Training	65	31	63	12	73	24	25	18	45	20	207	41
Veterinary Medicine	92	59	92	15	52	19	16	12	91	40	90	18
Horticulture	25	16	51	10	49	16	16	12	43	19	63	12
Number of Students Selecting Each Occupational Category**	155		518		300		136		229		510	
Average Percentage of Each Occup, Category as a Whole		58		23		26		18		44		22

*Each type of class stands alone as if in a separate table. **Numbers found in Table 2. Tables 40 and 41 give an indication of student interest in trades and industrial-type classes. that grade level has very little affect oninterest in the trades and industrial-type classes. reviewing Table 40 practically all schools ranked the classes in about the same order.

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this table supports the fact that many industrial type classes can be profitably taught to both groups to their selection of an occupational choice by category. The 518 students who selected the occupational apparent that there should be specialized, but separate classes in the above two important areas that The purpose of Table 41 is to determine the interest of the different groups of students according A review of the two columns agriculture production compared to skilled trades reveals some great similarities as well as some differences. The students opting the skilled trades are The information as should be expected. The 155 students who selected agriculture production and off farm business much more interested in auto mechanics and auto body repair than the students selecting agriculture. other hand agriculture students are much more interested in tractor and heavy equipment repair. These areas are welding, machine shop, building construction, and electrical wiring, categories skilled trades and transportation were the most interested in these kinds of classes. especially designed for agriculture students, as well as skilled trades students. were almost as high. students.

business compared with students selecting agriculture professions there is a marked difference in the two. In comparing the students who selected the occupational category agriculture production and off-farm compared to students selecting agriculture production. This demonstrates the value of teaching agriculdistinct types of students. In contrast in Table 39 the interest of the agricultural professions group related fairly closely to that of the agricultural production and off-farm business groups of students. students selecting agriculture professions are not interested in these industrial type classes as ture science classes separate from the mechanics classes because there is a different appeal to two The

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gory ranked the trade and industrial classes in about the same order. In other and agriculture professions One point of interest in Table 41 is that nearly all students as a whole in each occupational cate-There are a few the percentages are lower than other four groups but the order is about the same. exceptions such as; the "technicians" are more interested in electrical wiring.

It is indicated when comparing each of the students electing each of the occupational categories Table 41 that those groups with a vocational focus there is a higher interest rate in the classes than the more professionally oriented groups of students.

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TABLE 40

INDICATED MALE STUDENT INTEREST IN CERTAIN BROAD TRADE AND INDUSTRIAL-TYPE CLASSES IN SELECTED NEVADA HIGH SCHOOLS

			Numbers	rs and		Percentages	of Stu	Students	by School	201		
Trades and Industrial Classes	Churc	ni11	E1ko		Wooster	ı	Ely	•	Lund	771	Linco]	r.
	No.	No. %**	No.	**%	No.	% * *	No.	%*%	No.	% * *	No.	% * *
Anto Mechanics*	168	51	152	53	235	44	200	57	15	63	26	35
Gasoline & Diesel Engines	168	51	146	51	169	32	991	47	14	58	22	29
Welding	152	46	133	47	146	27	126	36	18	75	25	33
Machine Shop & Metal Work	121	37	100	35	135	25	122	35	16	99	24	32
Auto Body Repair	110	33	101	35	122	23	129	37	∞	33	21	28
Building Construction	114	35	102	36	124	23	103	30	16	42	25	33
Tractor & Heavy Equip. Repair	116	35	93	33	115	22	108	31	13	54	20	27
Electrical Wiring	90	27	96	34	111	21	99	19	œ	33	17	23
		TABLE	E 40 -	Continued	ned							
							Schools	ls Com	انة			
Trades and Industrial Classes	Yerington	gton	Fernley		Smith		Grade	Leve1	by %		Total	
	No.	%	No.	%	No.	%	6	10	11	12	No.	%
Anto Mechanics*	100	59	42	69	16	57	51	52	50	52	676	51
Gasoline & Diesel Engines	79	46	40	99	17	61	46	43	44	45	821	44
Welding	66	58	42	69	17	61	43	41	36	45	758	41
Machine Shop & Metal Work	73	43	30	64	14	20	39	34	32	33	635	34
Auto Body Repair	81	47	56	43	11	40	34	31	32	36	609	33
Building Construction	65	38	30	64	က	11	34	29	31	31	216	31
Tractor & Heavy Equip. Repair	28	34	28	9†	14	20	35	29	30	29	265	30
Electrical Wiring	69	41	27	77	∞	29	26	27	23	31	492	56

*Each type of class stands alone as if in a separate table.

**Per cent of the total male students in the school who indicated an interest in certain

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classes.

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TABLE 41

EXPRESSED INTEREST IN CERTAIN TRADES AND INDUSTRIAL-TYPE CLASSES GROUPED ACCORDING TO THE OCCUPATIONAL CHOICE BY CATEGORY OF MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS

Trades and Industrial Classes	Agr. Pro Off-Farm Business	Agr. Prod. Off-Farm Business	Skilled Trades,	led es,	Business Public	ness ic	Tech- nician	u u	Agr. Profs.	اه	Other Profs.	افدي
	No. %	%	No.		No.	% %	No.	%	No.	84	·No.	%
Auto Mechanics*	91	59	374	72	133	44	70	51	87	38	189	37
Gasoline & Diesel Engines	91	59	338	65	115	38	58	43	92	33	139	27
Welding	101	65	305	09	66	33	56	41	73	32	120	23
Machine Shop & Metal Work	83	54	255	64	83	28	50	37	62	27	98	19
Auto Body Repair	55	35	271	52	26	32	43	32	67	21	90	18
Building Construction	61	39	204	39	26	32	37	27	65	28	109	21
Tractor & Heavy Equip. Repair	101	65	237	94	73	24	29	21	54	24	69	14
Electrical Wiring	48	31	177	34	99	22	63	94	77	19	92	18
TOTAL EACH OCCUPATIONAL CATEGORY**	155		518		300		136		229		510	
AVE. % FOR EACH OCCUPATIONAL GROUP FOR COMPARISON PURPOSES		51		52		31		37		28		22
*Each type of class		stands alc	alone as i	if in 2	a senarate	1	tahle					

*Each type of class stands alone as if in a separate table.

** Numbers found in Table 2.

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In discussion Table 42 one must remember we included only boys in the study. If girls had been included the totals would possibly have been much higher than 22 per cent for office occupations. group of most interest in office occupations is the college oriented group. (Table 43)

opportunity for employment. There does appear to be, however, slightly higher interest in the 11th to 12th As has been stated before the percentage of students (16) interested in sales is low compared to the 43, unfortunately, again brings out the point with boys, there is no great interest in sales and service. This is possibly the case since these groups are old enough to engage in some employment. ne groups with the highest interest in sales and service are in business and the professions. graders.

There is only one school in the study (Fallon) that teaches aeronautics. It appears (Table 43) that if offered it would attract mainly the technicians and the college oriented students.

Table 43 indicates a high interest (83%) in the technicians group for electronics.

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TABLE 42

INDICATED MALE STUDENT INTEREST IN CERTAIN BUSINESS & TECHNICAL-TYPE CLASSES IN SELECTED NEVADA HIGH SCHOOLS

			Num	Numbers an	d Perc	and Percentages	of	Students by School	by Sc	thoo1		İ
Business & Technical Classes*	Churchill No. %	hill %**	E1ko No.	**%	Wooster No.	ter %**	No.	E1y %**	Lund No.	**% pı	Lincoln No.	ln %**
Office Occupations Culinary Arts Sales (Dist. & Marketing) Electronics Intro. to Aeronautics	59 27 43 106 116	18 8 13 32 35	63 38 58 105 106	22 13 20 37 37	125 64 90 181 198	24 12 17 34 37	86 28 46 130 121	25 8 13 37 34	3 2 4	17 8 4 21 13	17 17 12 21 22	23 23 16 28 29
		TA	BLE 42	- Continued	Lnued							
Business & Technical Classes*	Yerington No. %	ton %**	Fernley No.	ey %**	Smith No.	ih %**	Schoo Grade	ls Coml Level 10	ined by %**	12	Total No.	*** %**
Office Occupations Sales (Dist. & Marketing) Culinary Arts Electronics Intro. to Aeronautics	38 31 24 67 52	22 18 14 39 31	14 17 12 19 22	23 28 20 31 36	4 1 1 12 12	14 4 4 28 43	26 15 12 32 34	19 13 12 36 38	21 21 2 19 19 11 11 11 11 13 33 33 34 34	25 19 11 38 33	410 299 213 642 652	22 16 11 35

*Each type of class stands alone as if in a separate table.

**Percent of the total male students in the school who indicated an interest in certain classes.

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TABLE 43

EXPRESSED INTEREST IN CERTAIN BUSINESS AND TECHNICAL CLASSES GROUPED ACCORDING TO THE OCCUPATIONAL CHOICE BY CATEGORY OF MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS

				0ccup	Occupational Choices by Categories	Choic	es by	Catego	ories			
Business and Technical Classes*	Agr. Pro	Agr. Prod. Off-Farm	Skilled Trades,	ed ts,	Business, Public	6 SS:	Tech- nicians	su	Agr. Profs.	•1	Other Profs.	•1
	No. %	*	Irans. No.	. Be	No.	<u>ا</u>	No.	8	No.	%	No.	%
Office Occupations*	50	13	78	1.5	81	27	38	28	28	12	164	32
Sales (Dist. & Marketing)	14	6	72	14	84	28	10	7	24	10	96	18
Culinary Arts	14	6	47	0	47	16	20	14	18	œ	29	13
Electronics	17	#	150	29	104	35	113	83	53	23	201	39
Intro. to Aeronautics	22	15	140	27	100	33	71	52	77	34	239	47
TOTAL EACH OCCUPATIONAL CATEGORY**	150		518		300		136		229		210	
AVE. Z FOR EACH OCCUPATIONAL GROUP FOR COMPARISON PURPOSES		11		19		28		36		17		30

*Each type of class stands alone as if in a separate table.

**Numbers found in Table 2.

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CHAPTER II

Section 8 - Actual and Expected Student Mobility

for example, in the case of the Wooster High School, a student could have attended one of several junior their school career. A move was considered to be that other than his normal school attendance pattern. category with expected and actual mobility. Table 44 indicates the actual extent students move during Tables 44, 45, and 46 are included for the purpose of comparing students' vocational choice by high schools. This would not have counted as a move.

Lund, Lincoln and Ely. A generalization can be made as follows: "The greater the isolation of the school per cent of the students have attended the same junior and senior high school, 12 per cent have moved the less the student movement." The same generalization can be made in a different way. "The nearer that have the greatest mobility are Wooster, Churchill, and Fernley. The schools with the least are one time, six per cent have moved twice and one per cent have moved three or more times. The most important information comes from the 12th grade for the schools combined. the school is to the Reno area the greater the student movement."

TABLE 44

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ACTUAL MOBILITY OF MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS

			Numbe	rs and	Numbers and Percentages of	ages of	Stude	Students by School	Schoo	H		
Degree of Mobility	Churchill	hi11	Elko	0	Wooster	ter	K	Ely	l 3	Lund	Lincoln	ln l
	No.	84	No.	%	No.	%	No.	%	No.	%	No.	%
Same Jr. or Sr. H.S.	267	81	256	91	432	82	324	93	24	100	71	95
Moved One Time	39	12	21	7	73	14	20	9	0		ന	4
Moved Twice	16	5	5	7	21	4	7	н	0		ı	Н
Moved Three or More	9	2	0		2	0	П	0	0		0	
TOTAL RESPONDING	328		282		528		349		24		75	
NO RESPONCE	2		4		က		2		0		0	
			TABLE	E 44 -	Continued	ed						
Degree of Mobility	Yerington No. %	gton %	Fernley No.	$\frac{1ey}{\chi}$	Smith No.	th %	Scho Grad	Schools Combined Grade Level by % 9 10 11	mbined 1 by % 11	12	Total No.	N
Same Jr. or Sr. H.S.	152	89	48	79	25	89	96	87	85	80	1,599	87
Moved one Time	13	∞	11	18	æ	11	က	11	12	12	183	10
Moved Twice	က	2	н	2	0		Н	2	2	9	51	က
Moved Three or More	2	-	1	2	0		0	0	0	Н	12	П
TOTAL RESPONDING	170		61		28		356	558	208	423	1,845	
NO RESPONSE	O.		0		0		4	3	က	Н	11	
			!									

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do you believe you will be living approximately ten years from now?" In contrast with data in Table 44, it student movement when in school, while they expected the greatest outward mobility from the county after Table 45 shows some basic contrasts with Table 44. In this question the students were asked "where should be noted that movement of students while in high school had very little correlation with expected mobility after leaving school. The boys in the schools, such as Ely and Lincoln, indicated the least leaving high school. It appears that for the schools as a whole, sixty percent plan to leave the state, forty percent plan to There is not too much evidence to indicate how reliable this 60 percent outward movement from would indicate that 60 percent outward movement from the state may be high. In the above table for those Of those who plan to remain in Nevada the ratio is about three to one expecting to remain in the Nevada is, except (Table 59) for the 463 employed brothers only 37 percent had left the state. who had remained in Nevada the ratio was about three to one who stayed in the same county.

Table 45 demonstrates that the expected mobility is greatly different in the schools in the state. For example, one out of ten in Ely and Lincoln, contrasted with four out of ten in Wooster High School expect to remain in the same county. In the evaluation and planning of local vocational programs for a given high school the expected outward mobility of the students must be considered and is an important factor in planning and evaluating local programs. How far can vocational programs be planned on the basis of local employment potential reflected by a student's desire to continue to live in the same county?

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The problem of follow-up of students is important, but more difficult where the students move to other schools cannot be overlooked in planning vocational programs. There is some evidence (Table 36) that where there is a high expected mobility out of a county there is also a deficiency in adequate tools and space for vocational programs. The problem of small high states. Often where here is a high expected mobility out of the local county the schools are small size. This limits the number and variety of different vocational programs.

There is very little evidence to indicate that non professional students who expect to be mobile are filling evidence to indicate that students expecting to go into these fields are closely allied with the college oriented student and does not offer significant employment potential for the non-college bound student. This study does not include, to any refined degree, such important occupations as health services, scientific or technical occupations such as those brought on by the advent of the computer. these types of occupations (Section 9).

(Reno in the study) it would appear that if a community college were built it should be in Reno which has If the expected mobility is mainly outward in the more isolated schools contrasted with the urban the greater employment stability and the greatest potential for jobs.

TABLE 45

EXPECTED MOBILITY OF MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS*

•			Num	Numbers an	and Perce	Percentages	of Stud	Students by	y School	01		
Residence	Churchill	hi11	Elko	0	Wooster	ter	Ely	Δ,	Ü	Lund	Lincoln	oln
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Out of State	187	59	143	53	278	55	254	77	7	29	20	70
Same Nevada County	91	29	91	33	207	41	38	11	13	54	9	∞
Another Nevada County	41	13	38	14	20	4	39	12	7	17	15	21
TOTAL RESPONDING	319		272		505		331		24		71	
NO RESPONSE	11		1,4		26		20		0		4	
			TA	TABLE 45	- Continued	nued						
							Schoo	Schools Combined	nbined			
Residence	Yerington No. %	igton %	Fernley No.	ley %	Smith No.	th %	Grade 9	Level 10	l by % 11	12	Totals No.	als %
Out of State	95	62	27	97	15	54	63	57	58	63	1,056	09
Same Nevada County	35	22	18	31	6	32	23	34	30	25	208	29
Another Nevada County	27	17	14	24	4	14	14	6	11	12	202	11
TOTAL RESPONDING	157		59		28		345	542	479	400	1,766	
NO RESPONSE	13		7		0		15	19	32	24	06	

*Students were asked where they would be living approximately ten years hence.

is included to show differences in expected student mobility according to their occupational The occupational categories are ranked according to the percentage of students that expect to stay within the same county. choice by category.

To a degree all education is vocational education, but the primary focus of this study is on that kind of The public schools exist to educate all students to their highest potential. leads to employment competency that does not require the baccalaureate degree.

of the professions, but there is strong support for suggesting the need to redirect many students who have information in Table 46 cannot be considered by itself, because first of all there must be a job There is nothing in the study to discount the need of importance before a student can be employed. In some areas of the state that are devoid of employment potential indicated a desire for a college career into the vocational fields. should be encouraged to move.

strong local financial support for vocational programs in agriculture, skilled trades and business because six plan to leave the state, one plans to leave the local county but remain in Nevada and three plan for every ten high school to remain in the same county. The primary point in Table 46 is that it gives evidence for the need for The totals in Table 45 indicate the following generalization can be made: these students are most apt to stay in the local county.

comparing students occupational choice by category with their expectations for leaving the county we can get a fairly good picture of the vocational aspirations of those who plan to stay. There is some value in determining the occupational expectancies of the students who plan to By same county.

The vocational choice by category of every 100 boys in the study who expect to stay in the same county (Table 46, column - same Nevada County) is about as follows:

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Agr. Production and off-farm Agr. business	48
Skilled trades	31
Business (sales and ærvice)	30
Transportation and mining	27
Technicians	26
Professions (agriculture & other)	26
Public Service	21

a

Agriculture and business, along with some facets of the skilled trades, transportation and mining point that the category of business -- sales and service -- holds very little interest for students plannin larger numbers than those choosing the academic areas (public service excepted). Table 49 and 50 will ing to enter this important field, but of those that do plan to enter about 41 percent of the students' From the above information it would appear that the vocationally oriented students will stay in Nevada depends on parental financial support and assistance in establishment. Several tables emphasize the discuss the need for directing more students into the categories of business, and transportation and fathers are in business (Table 50). mining.

TABLE 46

THE OCCUPATIONAL CHOICE BY CATEGORY OF MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS GROUPED ACCORDING TO THEIR EXPECTED PLACE OF RESIDENCE TEN YEARS HENCE

			Exi	Expected Place of Residence	e of Resid	lence		
OCCUPATIONAL CATEGORIES	Same N	Same Nevada County	Another Nevada	Nevada	Out of S	State	Total	
	No.	%	No.	%	No.	%	No.	%
Agr. Prod. & Off-farm Agr. Business	73	48	26	17	53	35	152	œ
Skilled Trades	111	31	41	11	210	58	362	21
Business (sales & service)	34	30	10	6	69	61	113	9
Transportation & mining	34	27	14	11	79	62	127	7
Technician	34	26	11	∞	87	65	132	∞
Professions	185	26	81	12	437	62	703	40
Public Service	35	21	19	11	115	89	169	10
TOTAL INDICATING RESIDENCE	506		202		1050		1758	
PERCENT OF TOTAL		29		11		09		
				•				

CHAPTER II

The Relationship of Occupational Choice by Category with the Actual Employment of Fathers and Brothers Section 9

occupational employment categories of fathers and brothers to the students' occupational choice to deterwith the actual employment of fathers and brothers. The purpose of this section is to compare the broad Supportive tables and additional information can be Tables 47 through 50 give a detailed comparison of the students' occupational choice by category mine implications in planning vocational programs. found in the appexdix Tables 51 through 54, Table 47 gives the numbers and percentages of fathers engaged in the various occupational categories. percentage of fathers in the categories of business and professions. Ely is distinct in that about 66 The Wooster High School is the only urban school in the study. It differs in that there is a higher cent of the fathers are employed in the skilled trades and mining and transportation. There is nothing unusual in the table. It indicates the employment of fathers is closely related to the type of economy in the locality of the high school.

Since the students were told - major check broad categories as in Table 2. The only problem for the student was when the father held two or They only had to employment or where he earns the most money - this mainly proved to be a minor problem. The information for the tables in this section was obtained from the students. This was the case with 15% of the fathers (Table 54). more jobs.

TABLE 47

OCCUPATIONAL CATEGORIES OF FATHERS OF MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS*

			Numbers	ers and	and Percentages		of Students	by	School			
Occupational Categories	Churchill	hi11	Elko	0	Wooster	ter	Elv		Innd	75	Lincoln	12
	No.	%	No.	%	No.	%	No.	8	No.	%	No.	%
Farming or Ranching	57	19	39	16	6	2	6	3	12	09	က	5
Off-Farm Ag. Business	7	က	4	7	10	2	7	2	0		2	3
Business (Sales & Service)	38	12	51	21	187	37	31	6	0		15	24
Skilled Trades	69	23	77	18	104	21	98	30	7	20	6	15
Transportation & Mining	20	16	55	22	67	10	117	36	က	15	22	35
Technician	13	4	œ	က	19	4	12	7	Н	4	0	
Public Service	70	13	17	7	77	6	24	7	0		9	10
Agriculture Professions	5	7	11	7	16	ന	2	2	0		က	5
Other Professions	2.5	∞	19	œ	99	13	23	7	0		2	3
TOTAL RESPONDING	304		249		504		323		20		62	
UNKNOWN, RETIRED, DE- CEASED, NO RESPONSE	26		38		27		28	:	4		13	

TABLE 47 - Continued

Occupational Categories	Yerington No. %	gton %	Fernley No.	ley <u>%</u>	Smith No.	th %	Total No.	a1 %
Farming or Ranching	25	15	∞	14	15	54	177	10
Off-Farm Ag. Business	ന	7	0		2	7	32	7
Business (Sales & Service)	21	13	7	7	7	14	351	20
Skilled Trades	37	23	17	29	2	7	384	22
Transportation & Mining	46	29	19	32	7	7	363	21
Technician	7	П	7	က	0		57	3
Public Service	11	7	7	11	Н	4	150	9
Agriculture Professions	4	7	0		1	4	45	3
Other Frofessions	15	σ	7	က	н	4	153	6
TOTAL RESPONDING UNKNOWN, RETIRED, DECEASED NO RESPONSE	164		59		28		1,712	

*This question was written so the students' occupational choice can be compared with that of the fathers and brothers.

Supportive tables an be found in the appendix, Tables 55 through 59. There was no attempt to match or compare high school students with their brothers out of school. This was used only as a means to get a population of young Table 48 gives the actual employment of brothers of students in the high school. men in the local school area.

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other fields require an age older than this for entry or establishment. For this reason this technique for employed full time, 44 employed part time and 32 unemployed at the time the questionnaire was taken (Table Some professions and redicting future employment trends is not completely reliable; but in spite of this, it is believed the nformation given is cogreat worth in suggesting employment trends and a means of evaluating and im-This table only includes brothers who were employed full or part time. There were 38° Srothers 59). The average age of the brothers in the study was about 23 to 25 years of age. roving existing vocational programs. Table 59 indicates that of the 463 employed brothers, 21% live in the same county as the high school. act that 37 per cent of the employed brothers live out of the state gives an indication of the expected tate mobility lends a degree of additional meaning to the data compared to the fathers who all live and n additional 82 live in other parts of Nevada. One hundred seventy-one brothers live in other states. mobility of students about five to ten years after high school graduation. This indication of out of

TABLE 48

ACTUAL EMPLOYMENT OF BROTHERS OF MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS*

			Nur	Numbers a	and Percentages	entages	Ą.	Students b	by School			
Occupational Categories	Churchill No. %	n <u>111</u> %	F1ko No.	[%	Wooster No.	ter %	E1y No.	%	Lund No.	% 'P	Lincoln No. %	%
Farming or Ranching	12	12	10	17	8	က	5	9	က	43	7	11
Off-Farm Ag. Business	4	4	н	7	7	7	0		Н	14	0	
Business (Sales & Service)	21	20	15	25	52	77	17	19	0		4	21
Skilled Trades	30	29	6	15	25	21	17	19	7	29	m	16
Transportation & Mining	14	14	10	17	13	11	34	38	H	14	7	11
Technician	က	7	7	ო	11	6	5	9	0		Н	2
Public Service	∞	œ	6	15	4	က	6	10	0		Н	5
Agriculture Professions	0		2	ю	н	Н	0		0		0	
Other Professions	11	11	۳·I	7	7	9	က	2	0		9	32
TOTAL RESPONDING**	103		59		118		06		7		19	

TABLE 48 - Continued

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OCCUPATIONAL CATEGORIES	Yerington No. %		Fernley No.	8	Smith No.	 %	Total No.	T %
Farm or Ranching	2	7	0			10	38	œ
Off-Farm Ag. Business	Ó		Н	10	0		φ	7
Business (Sales & Service)	4	σ	ന	30	Н	10	117	25
Skilled Trades .	16	34	ന	30	5	ž 05	110	24
Transportation & Mining	6	19	7	20	0		85	18
Technician	2	11	0		Н	10	28	9
Public Service	7	15	Н	10	H	10	40	9
Agriculture Professions	0		0		0		т	H
Other Professions	4	6	ဂ		H	10	33	7
TOTAL RESPONDING**	47		10		10		463	1

*This question was written so the students' occupational choice can be compared with that of the fathers and brothers.

**Includes only brothers who were employed or unemployed as categorized by students surveyed.

RATIONALE FOR TABLES 49 AND 50

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that a large state geographically provides a disproportionate number of jobs compared to a small state with this uniqueness. The rationale for this statement is that Nevada is a large state geographically and all in isolated areas depend very heavily upon family and friends in obtaining ard holding employment outside the local highschool influence students in seeking employment? It was his hypothesis that people living of the local community. For this reason they tend to enter and pursue the same type jobs of their family surrounding population. The question the researcher attempted to answer was how does this isolation of trends, in reference to local employment projections, they must be considered and tempered in light of The underlying assumption of the researcher is that the employment potential in Nevada is unique compared to other states. It is assumed that in the usage of state and national labor statistics and This often, to them, may be more important than their training. Another hypothesis was of the schools in the study, except the Wooster High School, have a degree or isolation with a small the same population in transportation, construction and jobs related to public land management, and friends.

Tables 49 and 50 are not meant to imply that the world of work and employment opportunities are static. These tables were constructed on the premise that fathers and brothers' actual employment directly influence employment patterns of students.

A careful study of these tables and other data included supports to a degree the researchers basic

figures for students', fathers' and brothers' actual employment comes from Tables 2, 47, and 48 respectively. Table 49 is probably the most meaningful table in the study because it gives an indication of how the students' occupational choice by category relates to the actual employment of fathers and brothers.

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employment in any of the occupational categories. The discussion is only to show a hypothetical situation and tables treat the categories as a whole and there is no regard given to individual student capabilities the projected employment made on the basis of fathers' and brothers' actual employment. The discussion number of students who will need to change their occupational chcice by category to bring a balance in competencies. There is nothing to suggest that an exceptional student cannot be successful or find fathers' or brothers' employment projections. These columns were calculated to show the hypothetical The principal meaning in the table comes from the columns needed or surplus changes according without directly indicating things will actually happen this way OL

The size of the numbers in the fathers column compared to the brothers indicates The column under fathers and brothers entitled "needed" shows that more students should be encouraged the amount of change, also the importance of the employment needs of one category compared with another The columns under "surplus" indicates students should be discouraged from enter these categories. entering these categories.

employment of fathers compared with that of brothers. The point of particular interest is that when the correlation between the two. This is important because it shows that either method could be used with about the same authenticity of making future employment projections. This table gives a comparison of the relevance of projecting occupational trends based on actual fathers and brothers are converted to the same ratio in numbers as students there is a very close

The category of business--sales and service--shows that the field is rapidly expanding because is The reverse ransportation and mining where the brothers column is 46 less than the fathers 98 more students are needed than shown by the fathers column. rothers column,

3

in BUSINESS sales, distribution, merchandising of goods, insurance, real estate, service station, banking ind finance -- dry cleaning, motels, gaming, building maintenance, food services as cook or restaurant These categories include a breakdown of jobs in the questionnaire given to the students The two areas where the greatest potential for employment of students will probably be is (See Appendix Part 3) SERVICE. work, etc. ollows: R

most important to note that there is a need and great potential for individuals in many fields business, particularly in industry and finance, for the individual to have baccalaureate or masters The main emphasis in this study is on the less than B.S. degree programs. It is egrees.

RANSPORTATION, CONSTRUCTION, MINING AND UTILITIES. This category included a breakdown of jobs in the The other large category according to the questionnaire where there is considerable deficiency is truck driver, railroad, aviation -- highway, drilling, power and telephone, (See Appendix Part 3) etc. that require a knowledge of various types of equipment. uestionnaire as follows:

A conclusion indicated by the numbers in the table is that the skilled trades, agriculture production, agriculture off-farm business are fairly stable and do not need greater emphasis or expansion, and that these high school programs should be maintained at about the same level. and

it appears that they are closely related to the skilled examination of the categories of business and service, and transportation and mining, obs listed above under these categories, On an

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and agriculture. Perhaps with a more direct emphasis on the basic facets of business and economics these Wo vocational areas could aid greatly the training required in these areas. It appears that the whole vocational emphasis in all divisions are going to need to become more relevant to the world of work

Several tables indicate in ublic service have more students planning to enter them than needed. The national labor trends indicate The surplus side of the table would indicate that the two occupational categories of technician and asis of the information in the table where there is a slight surplus indicated, this in the future will professions are very closely ailied and related as to the training required and performance on the job. he study that in the minds of the students the occupational categories of technician and those of the n increase in these occupations so more students will probably be required rather than less. On the robably need only a slight expansion or emphasis in the schools in the study.

accountant, research chemist, physicist, mass media communications, social or public worker, minister, etc. The problem then is how to divert large numbers of students who have selected the professions to enter the The fact that fathers and teaching, medicine, law, civil engineer, governmental agencies, Bureau of Land Management, Fish and Game Department, and Agricultural Extension The specific job listed in the questionnaire for the agricultural In the questionnaire given to the students, the professions were divided into two categoriesforester, irrigation engineer, veterinarian and employment occupational categories of business and service, and transportation and mining. ervice, etc. . The other professions included the following: rofessions included the following: griculture and other professions.

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of supply and demand. It also stands to reason that when the current high school students seek employment and brothers have found employment in these areas would appear to be happening through the natural process large numbers of them will also find employment in these occupations.

But again the question of most importance, "Is this the best for The fact that colleges are screening out half or more of those that enter attests to the fact that the selection process is in operation.* the student and society?"

employment projections indicate the number needed in the professions are increasing. For example, if the Table 49 indicates that on the basis of fathers and brothers actual employment there is more than anticipated increase were about 175 per cent this would be slightly more than 350 students or about the number of students that have average grades of "A" and "B" in English and mathematics. (Table 500 "surplus" students expecting to graduate from college in the nine schools in the study.

the The causes of college attrition are hard to actually determine and include more than poor grades in English and mathematics. To determine the effect of poor English grades on college dropouts could be basis for another study, but the fact remains that lack of success in college English is an important factor

The problem of directing about 400 or more students away from anticipating or attempting to find a real problem. success in the professions is

^{*}AVA Journal, December, 1962

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As has been stated before, all of the potential employment and occupations were not included in the study but this section of the study indicates the "needed" or "surplus" occupational categories and the changed direction in student occupational choice by categories that should be made.

that have a potential for future employment. The second problem is for vocational educators and counselors to continue to work with students who lack the potential and capabilities to succeed in areas of expected The problem then is to improve the instruction, image and programs in those occupational categories surplus and help them to pursue those occupational categories which have the greatest potential for employment.

TABLE 49

SUMMARY OF PROJECTED CHANGES IN STUDENTS! OCCUPATIONAL CHOICE BY CATEGORY TO OBTAIN A BALANCE IN EMPLOYMENT REQUIREMENTS ASSUMING THERE IS RELEVANCE IN THE FATHERS' AND BROTHERS! ACTUAL EMPLOYMENT

	Student's Occupational Choice	nt's ional ce	Actual or E	Actual Occupation or Employment	ation		*Needed	*Needed or Surplus	*Needed or Surplus	
			Fathers	ers	Brothers	ers	Fathers**	3**	Brothers**	rs**
Occupational Categories	No.	84	No.	%	No.	%	N	S	Z	S
Business (Sales & Service)	118	9	351	20	11.7	25	261		359	
Trans. & Mining	135	7	363	21	85	18	257		211	
Skilled Trades	383	21	384	22	110	24	31		65	
Farming & Ranching	136	7	177	10	38	∞	55		13	
Off-Farm Ag. Business	19	 1	32	7	6	2	16		18	
Professions, Ag. & Other	739	70	198	12	36	œ		526		593
Technician	136	7	57	ო	28	ဖ		74		22
Public Service	182	10	150	Ø١	40	œ		20		19
TOTALS	1,848		1,712		463		620	620	672	634

**Conversion factor--to get the number of fathers and brothers in the same ratio as students was found by multiplying the totals in the fathers column by 1.08, brothers by 4.08. Then this was subtracted from the number in the students' occupational choice.

N - Needed or shortage

S = Surplus

Table 50 gives the percentage of boys who selected the same occupational category in which their This table gives an indication as to the categories of fathers' employment that udents anticipate entering. father was employed.

Seventy percent of the fathers in the professions had sons who expected to enter the business field, but of the 108 students who did expect to enter this field forty The greatest relationship between the students occupational choice by category and their fathers expected to enter the professions. Only thirteen percent of fathers engaged in business had sons who tual employment was the professions. four had fathers in business.

only one per cent of the students said the reason for not taking more vocational classes was because of the influence on occupational choice of their children is most difficult to measure. Table 26 indicated that This table does not offer too much help in determining which parents the vocational educator should decision of their parents. It appears easier to identify the students who should enroll in vocational work on most to get them to change their attitude about vocational courses. The problem of parental courses than it is to change the attitude of parents.

ered to the students. In the larger schools in the study there is enough variety in courses to provide recognized that schools 50 to 70 miles distant from larger schools are possibly too far for consolidation. The tables in Section 4, particularly Table 14, indicate the great differences of vocational courses training for the employment needs of most of the students in these schools. In the smaller schools not much more can possibly be done except (used advisedly) consolidation with the larger schools.

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TABLE 50

THE OCCUPATIONAL CHOICE BY CATEGORY OF MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS GROUPED ACCORDING TO THE ACTUAL OCCUPATION OF THEIR FATHERS

The	Perce	The Percentage of Student	of Stud	ents w	s who Selected the Same Occupational Category	cted t	he San	le Occ	upatio	nal C	atego	cy as	as Their Fathers	fathers
Occupational Categories	Ag. E Ag. E	Ag. Prod & Ag. Bus.	Business Sales & Service	ess A	Sk. Trades Trans. & Mining	rades • &	Techni- cians	- <u>i</u>	Public Service	ပ ပ	Profes- sions	180	. Total Students	L
	No.	12	No.	%	No.	%	No.	84	No.	26	No.	8%	No.	1%
Ag. Prod. & Ag. Bus.	83	40	∞	2	70	2			4	2	7	3	142	80
Bus. (Sales & Service)	9	ന	44	13	33	4	2	4	12	ω	11	9	108	Q
Skilled Trades Trans. & Mining	53	26	70	20	272	36	13	23	32	32	18	60	458	27
Technicians	7	က	31	6	20	7	œ	14	22	15	6	5	127	7
Public Service	15	7	32	6	80	11	4	7	24	16	77	7	169	10
Professions	77	21	163	47	271	36	30	52	55	37	139	70	702	41
No. of Fathers Who are Actually Working in Each Occupational Category	n 208	100	348	100	741	100	57	100	149	100	198	100	1706	

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CHAPTER III

DISCUSSION, MAJOR FINDINGS, CONCLUSIONS AND RECOMMENDATIONS

DISCUSSION

The major purpose of the study

Two, it is imperative that the essential meaning be reported. It is important to determine if the questions These concerns are found in the In the formulation of this chapter which summarizes and capsulizes the nine sections in Chapter concerns that formed the impetus for making the study are answered. objectives of the study. οĽ

The main objective was to determine needed improvements in vocational programs of male students They are as follows: Three specific objectives were listed. selected Nevada high schools. in

- educational plans, as well as the importance of student work experience of male students in selected Nevada To identify the characteristics and the tentative occupational choices by category and the high schools as they relate to planning vocational programs. Ξ
- schools are providing vocational training in accordance with the expressed vocational choice by category To determine strengths and limitations of vocational programs and the extent to which the the Students. (7)
- student interest in certain types of vocational classes and (2) the relationship of students occupational To determine the relevance of student vocational choice by category with the (1) expressed choice by category with the retual employment of fathers and brothers. 3

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The validity and reliability of the study

In consideration of the validity and reliability of the study one must examine the basic assumptions which it was designed. The primary assumption was that high school boys vocational and educational plans were tentative, but yet meaningful in planning vocational programs.

tudy of individual students and the generalizations made must be based on this fact. Inherent in this assumption is the fact that certain procedures in designing and administering the questionnaire must be In reviewing the information obtained there is no question that this is a correct assumption. ndings in this research must be considered in light of a large number of student responses. followed. They are listed below.

- appeared that more unusable responses were received because the student didn't understand the words used The questionnaires must be readable and in the language the student can readily understand. the bottom of the pages which warned the student to reread the questions were definitely helpful. he didn't understand the instructions as compared to his being dishonest or facetious. students indicated by a "yes" that they had done what was asked. (Appendix Part III) Ξ or
- ere either Dr. Christensen or Mr. Hartman did not give the surveys or did not meet beforehand to instruct The best results were obtained when the individual who administered the questionnaires impressed on the minds of the students the importance of the research and asked for their cooperation. Only ten surveys out of 1866 were completely unusable. In every case the unusable surveys came from instances e teachers in procedures in administering them. 3

We found in our original studies in Elko and those who were not would not cooperate. In vocational education studies it is most important to include all students, especially those who do not fit the normal mold.

Rationale for nine broad occupational categories Wells that students who were doing satisfactorily in school were most willing to sign their names but Students should not be asked to sign their names. ල

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the study that compared the responses to one question with their responses to a directly related question the students anticipated entering, as well as the actual employment of their fathers and brothers in the study. Only nine occupational categories made it possible by use of the computer to compare student responses to one question directly with another question. This procedure helped to determine the unique (Appendix Part III). Special attention should be given to page one of the student survey which divides the occupations into nine broad categories. These categories were established after considerable study and testing. It was found that these nine categories included practically all of the occupations that It is important that the reader first read the actual questionnaire that was given to the student. making certain generalizations about different groups of students. A review of the twenty three tasies wiil show that this system is of great value in determining specific characteristics of certain groups characteristics of groups of students who made the same responses. This procedure proved valuable in students. Tables 39, 41, 43 indicate beyond question that students selecting certain occupational tegories had distinct and different interests in certain types of vocational classes. in

college the vocational educator had only a secondary interest in him. The particular emphasis was on the non-baccalaureate degree student and for this reason there appeared to be no purpose in great specificity In all cases throughout the study when the term occupational choice is used the term occupain attempting to determine students specific occupational choices. The broad categories were designed It is hoped it will have meaning for the academically oriented counselor and educator, but to include general employment areas that would require on the secondary level about the same kind of This study is mainly for the purpose of assisting the vocational educator plan his vocational this is meant to be of secondary importance. The point of view was that if a student were going tional choice by category is implied raining. programs.

Some of the occupational categories were particularly designed to get specific information. The study as designed to include all vocational education for boys, but the primary thrust of the study was on griculture, trades and industry, and distributive education.

Students appeared to have no problem in completing this part of the survey. Perhaps if most of he students were in a highly urban area where more varied types of employment were common different ategories would need to be used.

MAJOR FINDINGS

he occupational choices and educational plans of the male students

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- vocational-technical training rather than college training. The forty per cent who indicated they expected About sixty per cent of the students made occupational choices by category for which they would need to graduate from college appeared to be unrealistically high.
- Eighty three per cent of the students who planned to enter a post secondary vocational or technical hnical programs in the College of Agriculture at the University of Nevada Reno are not widely known Since nearly all of the high schools studied were in western and northern Nevada it was not surprising that few students were interested in attending the ool planned to attend one outside of Nevada. It appeared that the Nevada Technical Institute, hold little interest for most boys surveyed. Nevada Vocational Technical Center. schc Teck ern (2)
- The largest percentage of students that were interested in attending a post secondary vocational Students on the whole generally appeared to understand the type of schooling required for a particular technical school were those who selected the occupational category skilled trades. npation. occr $\widehat{\mathbb{C}}$
- There were about 1.7 times as many students interested in entering the agricultural professions as there production agriculture. (4)
- The number of students anticipating a career in off farm agricultural business in Nevada is very limited. (2)
- students who selected the occupational category agricultural production in wany ways but was distinctly The students who selected the occupational category of agricultural professions were similar (9)

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Ö different in their expressed interest in not wanting to enroll in industrial-mechanical type classes.

- the whole they were similar to students who selected the category other professions, yet there was also some differences from this group.

 The congruence of students tentative occupational choices by category with measures of consistency.

 (1) About 60 per cent of the boys were consistent in their vocational choice by category, 25 per cent were partially consistent, and 15 per cent were inconsistent. This was determined by comparing the occupational choice by category made by the student with the three following measures: (a) The students indication of sureness of his response, (b) The selection of type of schooling measures with his occupational choice, (c) Expressed future occupational plans compared to his occupational choice by category.

 (2) The college oriented group were definitely more consistent than students planning to go directly to work. The data supported the fact that students going directly to work, after military obligations, were more confused and needed special help and counseling as compared to the students planning to directly to vork needed special help and counseling.

 (3) Students who indicated they planned to attend, after high school graduation, a vocational-technical school were not as consistent as the college oriented group, but like students going to work needed special help and counseling.

 (4) A study of the combined grades in English and mathematics indicated that the highest percentage of students who appeared to be unrealistic in their occupational choice by category was the college oriented students who appeared to be unrealistic in their occupational choice by category was the college oriented

The tables show that some 66 per cent of the students who say they plan to go to college do not meet the

- The problem of student employment is inseparably related to the local employment situation. English and mathematics standards at the University of Nevada.

 The type of student—work experience and how it relates to vocational choice by category.

 (1) About 85 per cent of the boys worked productively in the summer of 1968. About 55 per cent worked during the school year. Student employment was not a major problem in some schools because most of them were employed, The concern to assist students who are not employed to find employment is relevant to the following question. Do students not working wish to work or change to a more beneficial job? We did not ask this question. The problem of student employment is inseparably related to the local employment situation in many local situations the basic employment climate is fixed with a limited number of jobs for students.

 The local vocational teachers with the guidance counselors and cooperative work coordinators must work together for best results.

 (2) There is some correlation between a students' part time employment and his expected future occupational employment category. The correlations (87 per cent) were particularly high in agriculture. Fifty four per cent of students declaring a choice of business and public service were employed in business. The The concern to assist students who are not employed to find employment is relevant to the many local situations the basic employment climate is fixed with a limited number of jobs for students Student employment was not a major problem in some schools because most of them
 - There is some correlation between a students' part time employment and his expected future occupational correlations for all boys in the study compared to their occupational choice by category was low mainly because about 40 per cent indicated an expressed interest in the professions. Part time jobs in the
 - The greatest increase in employment About ninety per cent especially for individuals other than parents occurs in the 11th and 12th grades. The older the student the greater his potential for employment. professions are practically nonexistent.
 (3) The older the student the greater h

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Only about 12 per of this number were employed by their parents. In contrast with this, about 80 per cent of the 9th 12th grade boys were employed or worked productively during the summer of 1968. boys were employed but 30 per cent were employed by their parents. grade of all cent c

students get very little help from the public schools and the employment security department in ng employment findin (4)

The extent to which the schools are providing vocational training in accordance with the expressed the students, choices of

- students who expressed a vocational choice in the skilled trades and transportation, and production agriculture. it appeared that the schools on the whole were doing a good job in providing vocational training for th and 12th grade boys who had chosen these two occupational categories had taken an average of vocational classes per student. The 11 (1)
- no categories technicians and public service. These students as a group had taken an average of two or The schools as a whole were doing a fair job for the students who expressed an occupational choice of vocational classes taken were the most beneficial for the technician group particularly as compared to It was not determined vocational classes and not more than 15 per cent had taken none of them. another set of courses. the tw more , (2)
- It appeared a very poor job was being done for students expressing an interest in business, sales and These students averaged less than two vocational classes each and 21 per cent of these students had no vocational classes. service. (3)

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- taken vocational classes averaged slightly more than one class, and thirty nine per cent had not taken Of this group, for those students who It appeared from the data that students who indicated a preference for college and the professions were not, on the whole, being overloaded with vocational classes. any
- orientation; while other schools are providing good training for job entry in depth to a higher degree for There was a difference in basic philosophy of administrators and counselors on purposes and expected vocational programs it was apparent this differed considerably from school to school. This then was the basis for the following conclusion. Some schools were doing a far better job than others in vocational comes of their vocational programs. Part of this difference resulcs from the local situation which Two of the most important factors in quality vocational programs are school size and school financial support. In a review of the percentage of students enrolling in one, two, and three or more affected by such things as labor unions, finance and the total capabilities of providing vocational more students than others. programs. out (5)
- In comparing the percentage of students who anticipated entering the professions as compared to the centage who had completed three or more vocational classes (11th and 12th grade students) it appeared schools should provide more vocational classes. per 9

extent to which the vocational choice by category relates to the expressed reason for taking ticular vocational class.

This reason It was found the major reason boys enrolled in vocational classes was personal interest.

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same percentage (45) for both reasons listed above. This indicated as students grow older a slightly The 12th grade students indicate represented 48 per cent of all students who had or were taking vocational classes. The next reason higher percentage were in classes because they met their vocational objective. per cent) was because they assisted the students career objective. (42 the

- vocational programs, the main reason given by students for not taking more vocational classes was, fails to meet career objectives. In contrast to this in all of the other smaller schools the main reason In the schools of Churchill, Elko, Wooster and Ely where they all have at least four different centered in not offered in the school or schedule conflicts (7)
- colling in vocational classes. It was apparent that parental influence on vocational choice is highly Only one per cent of the students indicated that parental influence was the main reason for not important, but it is subtle, indirect and most difficult to measure. \mathfrak{S}
- there was no place else. An examination of the tables on students appraisal of vocational classes would not an important factor. Only about four per cent of the students gave these as a major reason for enrolling. It could not be determined from the data whether this influence was primarily in the best The effect of counselor or teacher influence in $\mathtt{get} t$ ing students to enroll in vocational classes interest of the student to enhance his vocational development or merely a place to send him because lead one to suspect the latter. was

How students appraise the vocational classes taken in the high schools.

Eighty three per cent of the students who had completed two or more vocational classes indicated

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ney were learning something of real importance and value to them.

- Ninety one per cent of the students who said they were in classes because it assisted them to obtain career objective said they were learning something of real importance. thei (2)
- One of the principal findings in the study was that there was a steady decline in satisfaction in vocational classes from ninth through twelfth grades. <u>@</u>
- (4) The average grade given for vocational classes was a "E".
- There was no support for the premise that vocational classes are a "wholesale dumping ground" for students. poor (2)
- If we can assume that grades in English and mathematics are indicators of student academic capabilities, a ratio of five to one who received grades of "C", "D", "F" in these classes said they were learning something of real importance to them in their vocational classes. 9
- in English and mathematics that reported dissatisfaction with vocational classes than report satisfaction It appeared that there was a slightly higher proportion of students receiving grades of "A" and "B" It must be recognized, however, that the total number of students was greater that received the above grades and were satisfied with their vocational classes. 3 with
- concurrence of opinion. Most students were satisfied with the quality of teaching received in vocational Students will rate the quality of teaching received and in most schools there was a rather strong There were some exceptions to this, however. classes. 8

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- There was considerable difference in the satisfaction from school to school in the adequacy of tools, dissatisfaction. About half of the students in Ely, Lund, Lincoln and Yerington definitely thought they were handicapped in this regard. In general, the older the student the more handicapped they feel for equipment and space to get the jcb done. As a general rule, the smaller the school, the more the lack of tools and space.
- Ninety one per cent of all of the suggestions given by boys in the nine schools could be grouped in only nine categories. There was a very high correlation in these suggestions from school to school. (10)
- period, (2) need for more equipment, tools, and supplies, (3) more beneficial student projects, (4) larger and newer facilities, (5) more and advanced vocational classes, (6) improved supervision and discipline, The major suggestions listed in order of frequency by students are as follows: (1) longer class (11)
- 7) improved instruction, (8) better and more teachers, (9) enforced prerequisites.

comparison of the students vocational choice by category with expressed student interest in certain types vocational classes.

- from the 9th through 12th grades. About the only two classes which showed a great increase as the student Student interest in agricultural, industrial, and business and technical classes changed very little became older was leadership training and electronics.
- In rating the three types of classes for student interest the highest interest was in industrial classes, next in agricultural, and least in business and technical type classes. 5

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Ninety three per cent of the students selecting the occupational category agricultural professions All of the students in the schools studied showed considerable Of the seven types of agricultural classes, conservation, forestry, etc. had the greatest student nterest in conservation, forestry and recreation type classes. interested in this type of class.

- he greatest interest was shown by students selecting the occupational categories of agricultural production of class Considerable interest was shown by those selecting Economics and management of a ranch or business was the next type of agricultural class in which Thirty two per cent of all students were interested in this he occupational categories of business and skilled trades. nd off farm business and agricultural professions. students were most interested.
- The study supported what has long been suspected that the older student who is college bound is the most interested in leadership training, Those selecting The college oriented students were most interested in leadership training. occupational category skilled trades were by far the least interested. lub work and public relations.
- (6) About half of all boys studied were interested in auto mechanics.
- Students who elected the occupational categories agriculture production and off farm business were most interested in welding, and next in tractor and heavy equipment repair.
- Students electing the occupational category skilled trades and transportation had the highest interest all occupational groups in the mechanical industrial type classes. 8
- Students electing the professions were least interested in the industrial type classes.

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roviding special classes in agricultural science so that students could enroll in them without having The industrial type classes distinguished clearly between students selecting the occupational This study supported the need for categories agricultural production and agricultural professions. o take the industrial mechanical type classes.

Students who indicated a desire to go to college and enter the professions and the technicians There was no great interest in any of the five classes listed under business and technical type roup showed the greatest interest in these types of classes classes.

he effect of student vocational choice by category upon the actual and expected mobility of high school students.

more times. The greater the isolation of the school the less the student mayement while in high school. twelve per cent have moved one time, six per cent have moved twice and one per cent have moved three or Eighty per cent of the 12th grade students have attended the same senior and junior high school,

The more the school is isolated generally the greater the expected mobility out of the local county. (7)

Considering the nine schools as a whole, six out of ten boys expect to leave the state, three expect

3

to remain in the same county, and one expects to leave the county but remain in the state.

Of the students who expect to stay in the same county the highest percentage are in the occupational ategories of agricultural production, skilled trades and business (sales and service).

The higher the educational training (military careers excepted) the greater the expected mobility out of the local county and the state. (2)

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relationship of occupational choice by category of students with the actual employment of fathers brothers. The

- There is very little difference in making future employment projection of stidents by using fathers' actual employment contrasted with brothers' actual employment. By using both and comparing one with the er provides a degree of accuracy in predicting trends. (I)oth
- require the greatest number of future employees are business (sales and service) and transportation and Based on the actual employment of brothers and fathers the two employment categories that will mining. (3)
- The occupational categories with the greatest surplus was the professions that require a B.S. degree ල or
- business, technicians and public scrvice appear to be fairly stable with no great emphasis or curtailment The occupational categories of skilled trades, agricultural production and off-farm agricultural needed. (4)
- The occupational category business (sales and service) has great need for future employees yet there appears to be very little interest in these type occupations for boys. It appears a new approach and a new emphasis should be followed to train students for these occupations. (5)
- occupational choices of their sons. This relationship is much higher in some occupational categories There is definite indication that the actual employment of fathers influences the prospective 9

- The research shows that students should not be discouraged further from entering agricultural production. There has been a great de-emphasis in this important occupation and the study shows that this should be stopped or curtailed.
- eventually finds employment. Of more major concern is the great number who are not quality students and appears that the quality student who goes to college regardless of the reason for going succeeds and number who expected to enter the agricultural professions greatly exceeds the potential for employment. exceptional job in encouraging students to enter the agricultural professions. It also shows that the question that this study does not attempt to answer is what happens to students who go to college. It appeared in the schools where vocational agriculture was taught the teachers were doing an do not succeed in college. (8) The

CONCLUSIONS AND RECOMMENDATIONS

The study presents a mass of data covering a great many facets of the total vocational programs provided separately administered school districts makes specific recommendations difficult and of limited value. Since the study included nine separate high schools ranging in size from 24 to 531 boys in in each school. Also, in addition to the nine schools, there is data on six small schools. Part II)

can draw his own conclusions. The data collected should give the reader a comprehensive over view of The main value of this study should be the organization of the data in a form so that the reader the quality of vocational programs in Nevada.

important recommendations can possibly be made from the information presented in Chapter II and the Some general conclusions and recommendations are listed below. This is only a partial list. appendixes.

- One of the first conclusions is there is great differences and similarities in the vocational These have been indicated throughout the study. programs in Nevada. (T)
- A comparison of student anticipated employment compared to the actual employment of fathers' It demonstrates what can be done using the computer to This type of research takes considerable and brothers' provides a means of studying employment trends and adds to the usability and practicality time and effort, but provides a means of making comparisons and provides meaning that cannot be identify the characteristics of different groups of students. There is value in this type research. of this type research. otherwise.

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- These evaluations can be of great value in improv-One of the assumptions of this research is that the student himself will and can provide many answers to the needs and types of vocational programs that the schools should provide. Students should periodically be given an opportunity to make an evaluation of vocational programs. Certain procedures must be followed if their judgments are of most value. ing local programs.
- occupational choices. In planning vocational programs broad occupational categories are sufficient because process is developmental in nature. It has its first major start in the secondary schools and should be counselor or vocational teacher must not require too high a degree of refinement in determining students the cluster approach to teaching and the continued training after high school. The career selection Within limits students going to work or to vocational-technical schools can be identified. continued in a post secondary or community college.

mine student consistency of occupational choice. A further study should be made using grades as the fourth vocational classes so they can be guided into them. In this study only three measures were used to deter-There needs to be further study of ways and means of determining which students can profit most from measure,

emphasis on providing more adequate post secondary programs in Nevada to give individuals that depth of The implication resulting from this trend is that there must be a greater training necessary for job entry. Also, there appears to be a great need to continue and strengthen There is a trend in the secondary schools to provide more vocational orientation classes fewer classes for job entry.

support the conclusion the best total vocational programs have classes with a number of varied lengths Some classes should be of limited lengths, such as single periods for one semester or in class time. Some classes should be of limited lengths, such as single periods for one semester or full year. The goal of these classes should be vocational orientation for the student. On the other hand there should also be vocational classes organized in sequence in long enough periods so that the students going directly to work, job entry skills. It appears that there is evidence in the study to classes at the 11th and 12th grade level that are long enough in length to give, particularly those students will reach job entry level competency.

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Consolidation (used advisedly) This conclusion grows 'out of number five. There is not much that can be done in the small provide vocational programs in depth to meet the needs of their students. the best answer where the distance is not too great. 9

stances to larger populations. The size of the school has a direct and important bearing on the potential number of vocational-technical post secondary schools or community colleges in locations within driving a danger which may emerge, and that is the impetus on the part of some to provide This is a fundamental fact of life that cannot be discounted. for quality vocational programs. There is also

There is support in this study for the fact that many schools are handicapped financially to proide good programs due to lack of equipment and facilities. Extra state and national support is needed to tion should be completely reversed. This cannot be done without more finance and changes made to improve One of the main findings in study is that as students become older they become more dissatisfied with vocational programs. competency. provide programs in depth for vocational education for job ne overall quality of vocational programs. 0

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- There is a great need to redirect almost half of the students who say they plan to go to a four are the programs that can be provided by the secondary schools, adult and community colleges or technical year college and enter a profession into the occupations that require less than a college degree. 8 schools
- must obviously be better public relations with Farents and improved counseling, but this study shows part the vocational educator finds it difficult to cope. Part of the problem is within the program themselves evidenced by the fact that as the student gets older the more they are dissatisfied with their vocational This study shows that parental influence is hard to measure and is subtle in nature with which situations students report poor instruction, lack of discipline and lack of enforced prerequisites. In some schools students definitely feel handicapped for tools, equipment, and space. of the problem is within the vocational programs themselves. programs. 6
- (10) More counseling should be provided for students planning to go directly to work or plan to go to a post secondary vocational-technical school. The study shows these students are more frustrated and least sure of themselves as compared to the college oriented student.
- In general in the high schools studied a high percentage of students were productively working, especially in the summers. Since the employment opportunities are limited in most school areas in Nevada, counselors, cooperative work experience coordinators, if available, and the vocational teachers must work cooperatively together to provide beneficial work experience programs

All vocational programs should give greater emphasis to econowics and business aspects of their programs. interested in this field are the college bound, special short term programs in the summer might be held. Since a higher percentage of In Nevada the whole area of business (sales and service) for boys needs further study. are the occupations that held the greatest potential for future jobs. (12)

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- In some schools not now providing vocational agriculture, there is a definite interest and desire among students for such classes as conservation and forestry, economics and management, leadership training, and horticulture. (13)
- The problem of changing class length, enforced prerequisites for vocational classes, providing same suggestions for improvement should lend a degree of urgency to make a school wide study of the kinds of The fact that a high percentage of students listed the These same students have some very pointed suggestions, which if implemented, would help ıssists to meet career objective, a very high percentage feel that such classes are a real and important them to profit more from their vocational classes. It appears the schools should seriously review these The study shows that when students are enrolled in vocational classes because of the reason, more space and equipment as well as other suggestions are interwoven with the inherent school situation mprovements that can be made to assist students in benefitting most from their vocational programs. ncluding size of school, organization and finance. ralue to them. uggestions. (14)

APPENDIX, PART I

ADDITIONAL TABLES ON FATHERS AND BROTHERS

Tables 51 through 59 include additional information supporting Section Nine obtained from the students on their fathers and brothers. Reference was made to these tables in the discussion of Tables 46 through

TABLE 51

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EDUCATIONAL LEVEL OF FATHERS OF MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS

			Number	s and E	Numbers and Percentages of Students by School	iges of	Student	s by S	chool			
EDUCATIONAL LEVEL	Churchill No. %	1111	E1ko No.	%	Wooster No. %	# %	E1y No.	%	Lund No.	84	Lincoln No.	u] %
High school graduate	127	39	110	40	183	35	132	39	7	. 30	29	42
Less than H.S. grad. College graduate	100 51	31 16	81 48	29 17	93 163	19 31	114	34 13	14 0	T 9	25 9	36 13
Two yr. col. or trade sch.	77	14	37	13	80	15	47	14	2	6	9	6
TOTAL RESPONDING	322		276		519		338		23		69	
			TABLE	51 - 0	CONTINUED	۵						
EDUCATIONAL LEVEL	Yerington No. %	ton %		Fernley No. %	ey %		Smith No.	%		Combi	Combined Totals No. %	als
High school graduate	29	40		27	45		17	61		699	39	
College graduate 30 Two yr. col. or trade sch. 23	30	18		7	12		2 2	7		355 251	19	
TOTAL RESPONDING	168			09			28			1803		

TABLE 52

SOURCE OF OCCUPATIONAL TRAINING OF FATHERS OF MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS*

	Lincoln No. %	49 70 8 11 3 3 4 6 0 14	75		Combined Totals No. %	57 117 9 7 2 8	
	% N	8 4 8			Combine No.	1057 320 163 133 40 150	1856
chool	Lund No.	19 0 2 1 0	24				
ts by S	%	64 14 5 8 8 8			%	71 7 7 11 4	
Students by School	E1y No.	222 50 16 26 9	351		Smith No.	20 22 33 1	28
ages of	Z Z	52 24 8 7.		a			
and Percentages	Wooster No.	270 128 42 36 11 44	531	CONTINUED	$\frac{1ey}{\chi}$	58 8 13 10 2	
ers and	%	64 17 6 8 1		52 -	Fernley No. %	35 5 8 6 1	61
Number	E3ko No.	172 47 15 22 3 3	286	TABLE			
	1111 7	53 16 17 7 3			gton %	70 17 8 9 2 2	
	Churchill No. %	18 169 52 54 22 11 22	330		Yerington No. %	ng 101 28 14 13 4 10	170
	SOURCE OF TRAINING	On job or no spec. training 169 College Military service 54 Post H.S. trade school 22 High school programs 11 Deceased, no response 22	TOTAL RESPONDING		SOURCE OF TRAINING	On job or no spec. training 101 College Military service Post. H.S. trade school High.school programs Deceased, no response 10	TOTAL RESPONDING

*Students were asked to check the one which indicated where his father received his training for his major employment.

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TABLE 53

EMPLOYMENT STATUS OF FATHERS OF MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS

			Number	s and E	Numbers and Percentages of Students by School	Jo sagı	Student	s by S	choo1			
EMPLOYMENT STATUS	Churchill No. %	<u>111</u> %	E1ko No.	%	Wooster No. %	۲۱ %	E1y No.	%	Lund No.	%	Lincoln No. %	u %
Employee Owner or part owner Retired, unknown, deceased	203 91 1 36	61 28 11	172 87 27	60 31 9	310 170 51	58 32 10	281 36 34	81 10 9	111	46 33 21	48 17 10	64 23 13
TOTAL RESPONDING	330		286		531		351		24		75	
			TABLE	53 - 60	TABLE 53 - CONTINUED							<u> </u>
EMPLOYMENT STATUS	Yerington No. %	no:		Fernley No.	××		Smith No.	84		Combin No.	Combined Totals	ပ
Employee Owner or part owner Retired, unknown, deceased 12	121 37 1 12	71 22 7		37 115 9	61 25 15		11 17 0	40		1194 478 184	64 26 10	
TOTAL RESPONDING	170			61			28			1856		

TABLE 54

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NUMBER OF JOBS HELD BY FATHERS OF MALE STUDENTS IN SELFCTED NEVADA HIGH SCHOOLS

			Number	s and	Numbers and Percentages of	ages of		Students by School	choo1			
NUMBER OF JOBS	Churchill No. %	hi111 %	E1ko No.	%	Wooster No. %	er %	Ely No,	%	Lund No.	%	Lincoln No.	ln %
Only one	241	73	226	79	442	83	274	78	11	46	55	73
Iwo	53	16	37	13	45	8	38	11	7	29	œ	11
Three or more	15	2	7	Н	9	, –1	9	2	2	œ	9	∞
Retired, unknown, deceased 21	1 21	9	19	7	38	7	33	6	4	16	9	œ
TOTAL RESPONDING	330		286		531		351		24		75	
			TABLE	54 - C	CONTINUED	0						
NUMBER OF JOBS	Yerington No. %	ston %		Fernley No.	ey %		Smith No.	%		Combir No.	Combined Totals No. %	<u>11s</u>
Only one	134	79		49	80		20	71		1452	78	
Тwo	25	15		7	11		5	18		225	12	
Three or more	7	2		H	2		ന	11		47	ന	
Retired, unknown, deceased	7	4		4	7		0			132	7	
TOTAL RESPONDING	170			61			28			1856		

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TABLE 55

THE AGE OF BROTHERS OUT OF SCHOOL OF MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS

			Number	ts and	Percent	ages of	Numbers and Percentages of Brothers by School*	rs by S	choo1*			
AGE OF BROTHERS	Churchill No. %	hi11	E1ko No.	<i>5</i> -2	Wooster No. %	er %	E1y No.	%	Lund No.	<i>%</i> .	Lincoln No. %	ln %
20 to 23 17 to 19 24 to 27 28 or over	66 39 33 15	43 25 22 10	49 25 21	47 24 20 10	107 70 52 14	44 29 21 6	66 32 35 32	40 19 21 20	2 0	36 18 45	115 112 8	35 28 18 18
TOTAL RESPONDING	153		105		243		165		11		43	
AGE OF BROTHERS	Yerington No. %	ston %	TABLE	55 - CON <u>Fernley</u> No.	- CONTINUED		Smith No.	84		Combir No.	Combined Totals	118
20 to 23 17 to 19 24 to 27 28 or over	35 25 17 16	36 26 18 17		10 9 1	43 39 5 13		2 3 4 7	44 25 19 12		359 218 175 100	43 25 20 12	
TOTAL RESPONDING	96			23			16			855		

This was in effect There was no *Students were asked to give information about his brother/s/out of high school. attempt to make a connection with a brother in school to his brother/s/out of school. a sample of a population of students out of high school.

TABLE 56

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EDUCATIONAL STATUS OF BROTHERS OF MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS

			Numbers		and Percentages of Brothers by School	ages of	Brothe	rs by S	chool			
HIGH SCHOOL GRADUATE	Churchill No. %	1111 %	E1ko No.	% .	Wooster No.	er %	Ely No.	%	Lund No.	%	Lincoln No.	u %
Yes No Don't know	131 14 8	86 9 5	88 11 6	85 11 5	186 45 12	76 19 5	144 11 10	87	60 80	82 18	37 5 1	88 12 +
TOTAL RESPONDING	153		105		243		165		11		43	
			TABLE 56	56 – C(- CONTINUED	0						
HIGH SCHOOL GRADUATE	Yerington No. %	gton %		Fernley No.	ey %		Smith No.	%		Combi No.	Combined Totals No. %	118
Yes No Don't know	79 14 3	83 15 3		20 2 1	91 9 +		16 1 0	100+		710 104 41	83 12 4	
TOTAL RESPONDING	96			23		·	16			855		

+Insignificant

TABLE 57

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EMPLOYMENT OF BROTHERS OF MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS

•			Numbers		Percent	ages of	and Percentages of Brothers by	1 1	School			
EMPLOYMENT	Churchill No. %	hi111 %	E1ko No.	%	Wooster No.	er %	E1y No.	6%	Lund No.	%	Lincoln No.	ln %
Employed full time	74	87	51	67	82	50	95	39	5	45	16	37
Military	38	25	21	20	41	25	72	30	က	27	12	28
College	23	15	25	23	34	21	53	22	Н	6	12	28
Employed part time	8	٠	4	4	4	2	2	9	2	18	2	5
Unemployed	10	7	4	7	4	2	∞	က	0		ᆏ	7
TOTAL RESPONDING	153		105		165		243		11		43	
			TABLE	57 - C	57 - CONTINUED	9						
EMPLOYMENT	Yerington No. %	gton %		Fernley No.	ey %		Smith No.	%		Combin No.	Combined Totals No. %	118
Employed full time	42	45		6	39		7	77		381	77	
Military	23	77		9	26		2	13		218	25	
College	22	23		2	22		5	31		180	21	
Employed part time	9	9		2	6		т	. 9		77	5	
Unemployed	က	က		⊢	2		н	9		32	7	
TOTAL RESPONDING	96			23			16			855		

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TABLE 58

SOURCES OF OCCUPATIONAL TRAINING OF BROTHERS OF MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS

			Nu	mbers	Numbers and Percentages of	entage	s of Br	others	Brothers by School	11		
Sources of Training	Churchill	hi11	Elko	ł	Wooster	ter	띠	Ely	Lund		Line	Lincoln
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
On Job or No Spec. Training	75	72	41	70	81	69	61	89	9	98	6	50
College	16	16	6	15	20	17	11	12	0		œ	40
Post H.S. Trade School	œ	œ	6	15	6	· ∞	11	12	Т	14	2	10
High School Programs	4	4	0		∞	5	7	∞	0		0	
TOTAL RESPONDING	103		59		118		06		7		19	
			TABLE	58 -	Continued	Pi						
Sources of Training	Yerington No. %	igton %		Fernley No.	ley %		Smith No.	h %	·	Combined Totals No. %	d Tota	S]
On Job or No Spec. Training	29	99		7	75		7	70		316		89
College	∞	16		2	17		5	20		92	П	16
Post H.S. Trade School	4	œ		1	œ		0			45	,	10
High School Programs	9	12		0			н .	10		26		9
TOTAL RESPONDING	47			10			10			463		1

TABLE 59

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RESIDENCE OF EMPLOYED BROTHERS OF MALE STUDENTS IN SELECTED NEVADA HIGH SCHOOLS

			Number	s and	Percent	ages of	Numbers and Percentages of Brothers by School	s by	choo1			
LOCATION	Churchill No. %	$\frac{\text{hill}}{x}$	E1ko No.	%	Wooster No.	er %	Ely No.	%	Lund No.	%	Lincoln No.	%
In same county Other states Another county in Nevada	39 46 18	39 45 16	27 18 14	46 30 24	81 34 3	69 29 2	47 32 11	52 36 12	5 2 3	43 29 29	1 6 6	5 47 47
TOTAL RESPONDING*	103		59		118		06		7		19	
			TABLE	59 – (TABLE 59 - CONTINUED	D						
LOCATION	Yerington No. %	gton %		Fernley No.	key %		Smith No.	%		Combi No.	Combined Totals No. %	တ္ပ
In same county	9	18		2	20	I	H 1	10		210	45	
Another county in Nevada	13	37		o 61	20) 4	40		82	18	
TOTAL RESPONDING*	47			10			10			463		

*Includes only students employed or unemployed.



APPENDIX, PART II

SUMMARY OF STUDENT RESPONSES TO THE QUESTIONNAIRES MADE IN THE SPRING OF 1968

In the spring of 1968, Elko, Gardnerville, Fallon, Fernley, Yerington in addition to Carlin, Those destroyed were from Elko, Fallon, and Gardnerville. It was decided at that originally surveyed are now either included in this section or the body of the study except Gardnerville. Gerlach, Owyhee and Wells were included in a study. In June, part of the students' questionnaires were Tables 60 through 90 include a summary of student responses in six schools which are not a part was done, but the 1969 effort did not include Carlin, Gerlach, Owyhee, and Wells. All of the schools time not to complete the study and start over and make needed improvements in the questionnaire. accidentally destroyed.

In reviewing the data collected in 1968, it was decided that the importance and correlation of inforof the appendix leaving the reader to make his own interpretation of the data. Certain tables are noted mation collected to that of the schools discussed in the body of the study should be published as which correspond directly to tables in the body of the study.

In organizing the tables, it was decided to include Alamo and Austin with the four above schools in This decision was made because of limited space and the number of schools which had to be included on each page. the appendix.

The value of these tables is that they add additional support to the conclusions. They also add certain information that may be of value in planning vocational programs.

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SUGGESTIONS FOR READING THE TABLES

- The titles for the tables are mainly written as questions as they were asked of the student. Ξ
- The number of students for any item can figured from the number of students for each school at the top of the page. (2) In each line the figures are given as percentages. pe
- In some questions the percentages do not total between 99-101. In these cases the difference students who did not respond to the questions is
- In Table 74, each percentage is that part of the total of students in the study interested in a given class. (4)
- On those (5) The schools at Alamo and Austin were surveyed in 1969. They were not included in the body of le study because of a lack of space. These two schools are included with Carlin, Gerlach, etc. questions where the 1969 and 1968 surveys were different will be noted. th

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NUMBER OF STUDY	NUMBER OF STUDENTS	Alamo	Austin	Carlin	Gerlach	Owyhee	Wells	Total
	IN THE STUDY	21	15	38	26	24	68	192
TABLE 60	WHICH OF THE FOLLOWING VOCATIONS LIFE'S WORK WILL BE? (Corresponds	VOCATIONS Corresponds	OR OCCUPATIONS with Table 2)	NS DO YOU	BELIEVE BEST	INDICATES	WHAT YOUR ACTUAI	ACTUAL

OCCUPATIONAL CATEGORIES			Percentages	of Students	S		Combined %
Farming or Ranching	5	33	6	∞	38	22	19
Off-Farm Ag. Business	5	7	2	0	13	9	5
Business (Sales & Service)	0	0	9	12	0	16	9
Skilled Trades	19	20	23	12	29	15	20
Transportation & Mining	10	13	17	12	∞	9	11
Technician	24	7	4	31	∞	6	14
Public Service	24	7	6	4	0	9	∞
Agriculture Professions	Н	0	6	4	4	4	4
Other Professions	10	13	20	15	0	16	12
TABLE 61 WHICH OF THE FOLLOWIN	FOLLOWING VOCATIONS BEST D	BEST DE	ESCRIBES YOUR	FATHER'S AC	ACTUAL WORK? (Corresponds	Correspon	lds with Table
OCCUPATIONAL CATEGORIES			Percentages	of Students	S		Combined %
Farming or Ranching	15	43	2	27	58	35	30
Off-Farm Ag. Business	0	7	0	0	0	0	7
Business (Sales & Service)	10	28	11	12	∞	18	15
Skilled Trades	35	24	23	. 88	17	10	21
Transportation & Mining	35	7	57	16	∞	29	25
Public Service	ζ	7	0	0	7	0	۱۵
Agriculture Professions	0	7	0	0	0	0	7
Other Professions	0	0	7	œ	0	0	5

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	(3)
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L	
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NUMBER OF STUDENTS IN THE STUDY	Alamo 21	Austin 15	Carlin 38	Gerlach 26	Owyhee 24	Wells 68	<u>Total</u> 192
TABLE 62 IF YOUR BROTHER IS EMPLOYED FULL (Corresponds with Table 48)	EMPLOYED FUL able 48)	8 R	TIME, WHICH	PART-TIME, WHICH BEST DESCRIBES	HIS	PRINCIPAL EMPLOYMENT?	LOYMENT?
OCCUPATIONAL CATEGORIES			Percentages	s of Students			Combined %
Farming or Ranching	0	23	ო	7	*	5	8
Off-Farm Ag. Business	0	0	ന	0		0	ю
Business (Sales & Service)	0	23	2	က		13	10
Skilled Trades	09	œ	7	0		5	19
Transportation & Mining	0	15	7	2		Н	9
Technician	20	0	0	0		0	20
Public Service	20	23	2	0		Н	12
Agriculture Professions	0	0	0	0		0	0
Other Professions	0	∞	П	0		0	5
TABLE 63 WHICH BEST INDICATES STUDENT'S LONG RANGE PLANS MILITARY SERVICE? (Corresponds with Table 3)	S STUDENT'S LO	LONG RANGE P	1	AFTER LEAVING HIGH	H SCHOOL A	SCHOOL AND COMPLETING	ING
LONG-RANGE PLANS			Percentages	of Students			Combined %
Graduate 4-Year College	48	33	55	46	∞	50	40
Special Trade School	24	40	6	46	71	37	41
Directly to Work	29	23	30	80	21	12	18

*Information was not obtained from Owyhee.

3	

NUMBER OF STUDENTS IN THE STUDY	Alamo 21	Austin 15	Carlin 38	Gerlach 26	Owyhee 24	We11s 68	Tota1 192
TABLE 64 WHERE DO YOU LIVE NOW?							
Location			Percentages	es of Students	r.s		Combined %
Farm or Ranch	*	*	6	12	58	37	29
Town or City			81	77	21	59	09
Rural Area, Not on Farm			7	1.2	21	9	. 11
TABLE 65 WHERE DO YOU BELIEVE YOU WILL (Corresponds with Table 45)	45)	LIVING APPI	ROXIMATELY	BE LIVING APPROXIMATELY TEN YEARS FROM NOW?	OM NOW?		
Location			Percentages	es of Students	ts		Combined %
Nevada – Same County	14	21	26	19	29	32	21
Nevada - Another County	38	29	19	27	25	6	25
Out of State	48	50	51	50	45	26	50
TABLE 66 NUMBER OF STUDENTS COMP	COMPLETING ALL	. VOCATIONAL	COURSES	COMBINED.			
Number of Vocational Classes			Percentages	es of Students	ts		Combined %
None	0	33	15	35	0	24	18
1 to 2 Vocational Classes	71	47	99	27	59	29	50
3 to 5 Vocational Classes	29	20	19	38	33	31	28
6 to 9 Vocational Classes	0	0	0	0	8	16	4

*Not included in 1969 study.



NUMBER OF STUDENTS IN THE STUDY	Alamo 21	Austin 15	Carlin 38	Gerlach 26	Owyhee 24	Wells 68	<u>Total</u> . 192
TABLE 67 YEARS OR CLASSES STUDENTS	HAVE	ENROLLED IN V	OCATIONAL	IN VOCATIONAL AGRICULTURE.			
Years			Percentages	es of Students	S		Combined %
One	38	7	0	15	29	21	15
Тчо	38	0	0	∞	38	13	20
Three	19	0	0	0	13	4	6
Four	15	0	0	0	13	7	10
None	2	93	100	77	7	55	71
TABLE 68 WHAT IS THE TOTAL NUMBER OF YEARS TRACTOR COURSES?*	1 1	OR CLASSES	YOU HAVE	OR CLASSES YOU HAVE ENROLLED IN AUTO MECHANICS OR SPECIAL	UTO MECHANI	CS OR SPE	CIAL
Number of Classes			Percentag	Percentages of Students	S		Combined %
Only One Class	5	7	32	27	29	9	18
Two	0	0	11	0	0	က	7
Three	0	0	4	0	0	0	7
None	95	93	53	73	7.1	91	. 62

*Carlin and Gerlach have offered some general shop classes including metal work in addition to auto mechanics. In the other schools usually the shop work is part of vocational agriculture classes.



NUMBER OF STUDENTS IN THE STUDY	Alamo 21	Austin 15	Carlin 38	Gerlach 26	Owyhee 24	Wells 68	<u>Total</u> 192
TABLE 69 HOW MANY TIMES HAVE YOU MOVED TO		A DIFFERENT	SCHOOL	SINCE THE 7TH GRADE?	RADE?		
Number of Moves			Percentages of	s of Students	S	5	Combined %
None	71	53	51	65	28	63	09
One	24	40	17	12	33	24	25
Тwo	2	0	11	7	0	4	10
Three or More	0	7	15	, 19	ω	7	11
(This table is similar to Table 44 except and 8th grades. All the schools in Table TABLE 70 WHERE DID YOU MOVE FROM TO THIS	ccept lable THIS	that for Car 44 plus Alam SCHOOL?	that for Carlin, Gerlach, Owyhee, 44 plus Alamo and Austin include o			Wells it includes the 9th and 12th grades.)	the 7th
Location			Percentage	Percentages of Students	S		Combined %
Have Not Moved	*	*	38	58	54	54	51
Same County			11	80	4	16	10
Another Nevada County			23	0	13	13	16
Another State			21	27	29	15	23

*Not included in 1969 study.



NUMBER OF STUDENTS IN THE STUDY	Alamo 21	Austin 15	Carlin 38	Gerlach 26	Owyhee 24	wells 68	<u>Total</u> 192
TABLE 71 HOW SURE ARE YOU OF WHAT	r YOUR LIFE'	S WORK	WILL BE?				
Degree of Certainty			Percentage	Percentages of Students	S	3	Combined %
Fairly to Very Sure	99	29	43	69	7.1	59	61
Undecided	33	33	40	27	21	32	30
Confused	*	*	17	4	ω	10	10
*Not included in 1969	969 study.						
TABLE 72 HOW WELL DO YOU AND YOUR	PARENTS	AGREE ON YO	YOUR CHOICE (OF A VOCATION?	1.5		
Degree of Agreement			Percentages	s of Students	S	S	Combined %
Agree	*	٧	32	50	29	51	41
Don't Agree			0	0	4	7	9
Parents Have Not Said			36	31	38	26	33
I Don't Know			30	14	29	1.5	22
TABLE 73 HOW DO YOU RATE YOUR CLA	CLASSES ACCORD	ING TO	THEIR VALUE I	IN HELPING YOU	IN YOUR	LIFE'S WORK?	K?
Value			Percentages	s of Students	S	ŭ	Combined %
Fair to Good Job of Helping	*	*	88	65	92	81	82
Some Help			6	31	4	18	16
Very Little Help			0	4	7	Н	3

NUMBER OF STUDENTS IN THE STUDY	Alamo 21	Austin 15	Carlin 38	Gerlach 26	Owyhee 24	Wells 68	Total 192
TABLE 74 STUDENTS' INDICATION OF (Corresponds with Tables		IN COURSES, and 42)	ASSUMING	THEY WERE AVA	AVAILABLE.		
Types of Classes			Percentages	es of Students	ts		Combined %
Economics and Management	48	53	30	50	54	97	47
Livestock - Care & Management	64	80	28	38	50	34	97
Veterinary Medicine	43	53	28	35	42	38	40
Range Mngt., Soils & Crops	52	40	17	38	42	34	37
Leadership Training	24	47	15	27	25	34	29
Horticulture & Landscape	14	13	4	15	21	19	14
Welding - Arc & Acetylene	81	87	55	54	75	65	70
Diesel & Adv. Mechanics	71	87	47	62	58	54	63
Rpr. of Tractors & Farm Mach.	29	73	07	62	r*	09	62
Machine Shop & Metal Work	52	73	47	54	50	50	54
Building Const., Carpentry	43	09	36	42	42	57	47
Electrical Wiring & Plumbing	87	53	38	31	54	47	45
Electronics	52	27	45	50	97	44	44
Salesmanship	S	7	σ	65	∞	18	16
Office Occup., Typing	10	27	15	31	∞	27	20

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NUMBER OF STUDENTS IN THE STUDY	Alamo 21	Austin 15	Carlin 38	Gerlach 26	Owyhee 24	Wells 68	<u>Total</u> 192
TABLE 75 WHERE OR FOR WHOM DID YOU	I WORK THE	MOST LAST	SUMMER?	(Corresponds w	with Table	10)	
Employer			Percentage	e of Students			Combined %
Parents - No Definite Wage	0	7	15	23	33	23	20
Parents - Definite Wage	24	13	4	∞	7	70	11
Other Than Parent - Definite Wage	14	0	57	54	54	63	48
TABLE 76 WHEN ARE YOU EMPLOYED OR	SELF-EMPL	OYED DURING	G THE CURRENT	SCHOOL	YEAR?		
Working Time			Percentages	es of Students	Si		Combined %
Sat. and/or After School	*	*	30	43	34	32	37
Wk. Ends Only			28	35	42	35	35
Worked Less Than Ten Hours			42	22	24	33	23
TABLE 77 WHAT IS THE MAIN TYPE OF	PROPERTY	THE STUDENT	T OWNS?				
Type			Percentages	es of Students	S		Combined %
Machinery & Equipment	*	*	67	20	25	53	77
Livestock			9	19	54	28	27
Land & Buildings			13	ස	13	6	11

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*Not included in 1969 study.

<u>Total</u> 192		Combined %	20	7.0	17	14	٢	,			39	32	∞	9	,	9	20
Wells 68			77	Č	7.0	12	7	13	Table 12)		53	31	0	-	-1	0	10
Owyhee 24			97		33	œ	•	4	ds with T		9	7	0	c	>	7	7
Gerlach 26	ERTY.	of Students	5.4	t 1	27	4		∞	(Corresponds with		54	19	7	(0	0	23
Carlin 38	WORTH OF PRODUCTIVE PROPERTY.	Percentages of	7.3	/c	23	7		2	PAST SUMMER.		19	34	7		4	0	34
Austin 15	JORTH OF PRO		-4	×				·	DURING THE		40	20	0)	7	26	7
Alamo 21	NET			*						٠.	62	uη	77	+	0	19	0
NUMBER OF STUDENTS IN THE STUDY	THE TOTAL VALUE OF STUDENTS'		Value	Less than \$100	\$101 to \$1,000		\$1,001 to \$4,999	More than \$5,000		TABLE /9 TYPE OF EMPLOYMENT STORY	Agr Production	ngi. iromicales & Service)	DISTILLED S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLLEGE S COLL	Mechanics & Construction	Off-Farm Agr. Occupations	Other than Ahove	Did Not Work

*Not included in 1969 study.

NUMBER OF STUDENTS IN THE STUDY	Alamo 21		Austin 15	멸	Carlin 38	in	Gerlach 26	ach	Owyhee 24	9	Wells 68	ωl	To	Total 192
TABLE 80 WHAT IS YOUR AVERAGE GRADE	RADE IN	ALL	OF TE	THE ENGI	ENGLISH A	ND MAT	HEMATI	AND MATHEMATICS CLASSES		H NO	YOU HAVE TAKEN?	AKEN?		
Average Grade					Percer	Percentages	of	Students					Combined %	% pau
	Eng Math	ath	Eng Math	lath	Eng Math	lath	Eng Math	lath	Eng Math		Eng Math		Eng Math	ath
A	5	2	0	7	4	6	4	œ	21	4	6	19	7	6
В	45	15	7	27	17	17	42	31	63	17	29	38 3	34 ;	24
·	20 (09	09	29	53	34	20	42	13	42	41 2	29 4	7 95	46
Q	0	2	33	0	19	34	4	12	4	33	19]	12 1	16]	19
Ħ	0	0	0	0	9	4	0	0	0	0	-	1	4	က
TABLE 81 WHAT ARE YOUR AVERAGE GRADES	1 1	IN VO	CATIO	VOCATIONAL AGRICULTURE	RICUL	TURE OR		INDUSTRIAL TYPE CLASSES	TYPE	CLAS	SES			
Average Grade					Perce	Percentages	of	Students	S			اد	Combined %	led %
А	0		*		13		15		13		22		16	
В	45				13		27		42		13		25	
O	40				30		∞		13		13		20	
D	0				9		0		17		0		12	
[24	0				2		0		0		0		2	

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*Not included in curriculum.

NUMBER OF STUDENTS IN THE STUDY	Alamo 21	Austin 15	Carlin 38	Gerlach 26	Owyhee 24	Wells 68	<u>Total</u> 192
TABLE 82 - WHAT IS YOUR MOTHER'S EDUCATIONAL STATUS?	'S EDUCATI	ONAL STATUS	65				
STATUS			Percentage	Percentages of Students	S		Combined %
College graduate	ને¢	- *	2	4	0	9	9
Two years of college			13	4	0	10	14
High school graduate			62	81	54	62	65
8th Grade			19	, 12	33	16	20
Less than 8th grade			7	0	13	9	12
TABLE 83 - WHO ARE YOU LIVING WITH NOW?	WITH NOW?						
RESIDENCE			Percentae	Percentages of Students	ıts		Combined %
Both parents	*	•*	85	73	79	87	81
Mother only			6	12	7	4	7
Father only			7	12	0	4	7
Other			2	7	17	4	7

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*Not included in 1969 study.

NUMBER OF STUDENTS IV THE DODA	Alamo 21	Austin 15	Carlin 38	Gerlach 26	Owyhee 24	Wells 68	<u>Total</u> 192
TABLE WHAT IS THE EMPLOYMENT STATUS	l i	OF YOUR FATHER?	HER?				
STATUS		P	Percentages	of Students			Combined %
Full-time	*	*	81	96	71	06	85
Part-time			4	0	13	4	7
Unemployed			4	0	0	0	7
Retired			2	4	13	1	2
Deceased			*	0	7	7	က
TABLE 85 - WHAT IS YOUR FATHER'S EDUCATIONAL STATUS?	S EDUCATIO	NAL STATUS?		(Corresponds to Table 51)	le 51)		
STATUS		Ā	Percentages	of Students			Combined %
College graduate	5	28	19	12	0	σ	15
Two year college	20	22	13	15	7	12	14
High school graduate	45	37	34	42	50	54	77
8th grade	1	1	32	37	13	16	25
Less 8th grade	i	1	4	4	7	7	2

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*Not included in 1969 study.

NUMBER OF STUDENTS IN THE STUDY Alamo 21	Austin 15	Carlin 38	Gerlach 26	Owyhee 24	Wells 68	<u>Total</u> 192
TABLE 86 HOW MUCH OF THE TIME DOES YOUR FATHER WORK ON A FARM OR RANCH?	. FATHER WORK (ON A FARM OI	R RANCH?			
Relationship to Farming		Percentage	Percentages of Students	ĽS		Combined %
Does Not Work on Farm or Ranch *	*	89	62	33	59	61
Works on Farm or Ranch Full Time		2	23	20	35	28
Works on Farm or Ranch Part Time		7	. 12	13	9	6
TABLE 87 WHAT IS YOUR FATHER'S STATUS AS	TO TYPE	OF WORK AND OWNERSHIP		IN AGRICULTURE?		
Status		Percentages of	es of Students	ts		Combined %
Does Not Work in Ag. Prod. or Off-Farm Ag. Business	*	81	54	33	54	56
Owner of a Ranch or Farm		2	23	54	31	28
Employee on a Farm or Ranch		7	∞	7	10	7
Works in Off-Farm Ag. Business		0	∞	7	4	ιΛ
Leases or Rants Ranch or Farm		0	4	0	0	4

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*Not included on 1969 study.

SCHOOLS	Alamo 9	Austin 14	Carlin 26	Gerlach 16	Owyhee *	Wells 41	Total 106
TABLE 88 WHAT IS YOUR BROTHER'S AGE?		(Corresponds to Table 55)	o Table 55)				
Age			Actual Numbe	Actual Number of Brothers	S		Combined %
17 to 19	e	П	۲	ന	*	13	24
20 to 23	n	ന	11	10		2	37
24 to 27	Т	'n	7	ന		∞	23
28 and Over	2	2	ĸ	0		ω	17
TABLE 89 WHAT IS YOUR BROTHER DOING NOW?	OING NOW?	(Correspon	(Corresponds to Table 57)	57)			
Status			Actual Numbe	Actual Number of Brothers	S		Combined %
College	7	0	2	က	*	9	12
Military Service	7	н	9	9		10	24
Employed Full-Time	Ŋ	13	11	2		19	20
Employed Part-Time	0	0	3	2		က	∞
Unemployed	0	0	4	0		က	7

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*Information was not obtained.

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NUMBER OF BROTHERS	Alamo 5	Austin 13	Carlin 18	Gerlach 7	Owyhee *	Wells 25	Total 68
TABLE 90 IF YOUR BROTHER IS EMPLOYED (Corresponds with Table 59)	OYED FULL OR 59)	1	E OR IS UNI	PART TIME OR IS UNEMPLOYED, WHERE DOES HE LIVE?	SRE DOES HE	LIVE?	
Residence			Actual Number of	ber of Brothers	ners		Combined %
At Home	0	Н	9	7	*	7	23
Same County	0	2	 1	⊢ 1		ო	10
In Anothe Nev. County	7	5	7	Н		7	21
Another State Than Nevada	ന	īŪ	6	ന		11	95
TABLE 91 WHERE DID YOUR BROTHER RECEIVE HIS	RECEIVE HI	1 .	FOR HIS MAJ	TRAINING FOR HIS MAJOR EMPLOYMENT? (Corresponds with Table58	T? (Corres	ponds wi	th Table58)
Location			Actual Num	Actual Number of Brothers	lers		Combined %
College	0	7	7	0	*	Ŋ	16
Trade or Special School	H	0	m	1		'n	14
H.S. Voc. Program	H	0	7			0	6
On The Job Training	7	Ŋ	ιΛ	2		10	35
No Special Training	H	7	4	m		ι ς;	25

*Information was not obtained.

APPENDIX, PART III

COPIES OF STUDENTS' SURVEYS AND THE INFORMATIONAL SHEET OBTAINED ON EACH SCHOOL'S VOCATIONAL PROGRAM

The students' survey form or questionnaire is included as used except a few notations have been included to explain how a particular question was tabulated. Each student's survey was hand-checked by a secretary and double-checked by Dr. Christensen before going to the computer. Certain minor adjustments were made in the compilation of some questions. The questionnaire appeared to be reasonably readable and understandable by the student. This was the result of previous studies and extensive pretesting of students in the Sparks High School.

The form on vocational programs from the schools was completed by either the principal or counselor. It served as a check to prevent duplication of classes reported by a student for Section Four, Chapter Two. It was also the basis for information in Table 14.

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GENERAL INFORMATION FOR THE STUDENT

- 1. THIS IS A SURVEY, NOT A TEST OR EXAMINATION.
- 2. YOU ARE NOT ASKED TO SIGN YOUR NAME BUT WE EXPECT YOU TO ANSWER ALL QUESTIONS TO THE BEST OF YOUR ABILITY.
- 3. WE ARE INTERESTED IN YOUR PRESENT ACTIVITIES AND OCCUPATIONAL GOALS.
 THE RESULTS OF THIS STUDY WILL BE USED TO EVALUATE PRESENT VOCATIONAL PROGRAMS AND ASSIST US IN PLANNING NEW PROGRAMS. THIS IS YOUR OPPORTUNITY TO HELP US PLAN BETTER PROGRAMS TO FIT YOUR NEEDS.
- 4. INFORMATION ON YOUR FATHER AND BROTHER IS ASKED FOR THE PURPOSE OF HELPING US ESTABLISH TRENDS AND SUPPORT THE FINDINGS IN THE STUDY.

SPECIFIC INSTRUCTIONS (PLEASE READ TO THE STUDENTS)

- 1. Please read each question carefully--take your time.
- 2. Check only the one best answer on each question.
- 3. Do not leave any questions unchecked.
- 4. Some questions ask you to write in specific information. Please do this to the best of your ability.
- 5. If you have one or more brothers who is 17 years or older and not in high school we will give you a separate colored sheet to be completed for each of them. (In the students' questionnaire, the form was colored. The form is identified as: SECTION III BROTHER'S EMPLOYMENT WHO IS OUT OF SCHOOL.)

SECTION	ISTUDENT	

1.	Name of	the High	School					·	
2.	Year in	School	(1) 9th	(2)	10th	(3)	11th	(4)	12th



PART I. STUDENT'S FUTURE VOCATIONAL AND EDUCATIONAL PLANS

CAUTION: This is the most important question in the study, TAKE YOUR TIME!

- 3. WHICH OF THE FOLLOWING VOCATIONS OR OCCUPATIONS DO YOU BELIEVE BEST INDICATES WHAT YOUR ACTUAL LIFE'S WORK WILL BE?
 - a. Check only the one best answer.
 - b. Underline the actual job or occupation you believe will be your life's work.
 - (1) Farming or ranching (production of crops, animals, plants, etc.)
 - (2) Off-farm agricultural business or job (as sales and service of agricultural animals, crops, horticulture, machinery, etc.)
 - Business (sales, distribution, merchandising of goods, insurance, real estate, service station, banking and finance, etc.)

 Service (dry cleaning, motels, gaming, building maintenance, food services as cook or restaurant work, etc.)
 - (4) Skilled trades (mechanic, electrician, plumber, machinist, carpenter, draftsman, etc.)

 Note: Usually requires special training for employment.
 - (5) _____Transportation (truck driver, railroad, aviation, etc.)

 Construction or mining or utilities (highway, well drilling, power and telephone, etc. that require a knowledge of various types of equipment.)

 Note: May or may not require special training before employment.
 - (6) Technician (electronics, data processing, TV and radio repair, air conditioning and refrigeration, laboratory and health services, etc.)

 Note: Special technical training beyond high school required (usually two years or more), but less than college graduate.
 - (7) Public service (law enforcement, military career, fireman, post office, barber, etc.)

 Note: Include in this group any job, public or private, that does not require a college degree that is not included in the above questions.
 - QUESTIONS 8-9 ARE PROFESSIONS. THEY REQUIRE AT LEAST A COLLEGE DEGREE FOR EMPLOYMENT.
 - (8) Forester, irrigation engineer, Bureau of Land Management, Fish and Game, veterinary science, agricultural research, agricultural extension, etc.

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((9) Teaching, medicine, law, civil engineer, accountant, research chemist, physicist, mass media communications, social or public worker, minister. (Include any job not listed that requires a college degree in the group.)
C	Other: If not included, please list:
	How sure are you of your life's work as indicated by your answer to the above question? (Check only one)
((1) Very sure (2) Fairly sure (3) I am not sure of my answer
D	Do you plan to graduate from high school?
	(1)Yes (2)Undecided
W	Which best indicates your long range plans after you leave high school and have completed military service?
((1) Plan to ge directly to work with no further schooling. (2) Graduate from a 4-year college. (3) Attend a special trade or technical school.
I o	If you checked No. 3 above please list the <u>name</u> and <u>place</u> of the trade or technical school you would most like to attend:
((Used by checker to code schools)
P a	Please list the specific job or occupation you think you will have in about ten years: (Make the best estimate possible)

STOP! DID YOU CHECK OR COMPLETE EVERY QUESTION IN THIS SECTION?

PART II - TYPE AND NUMBER OF VOCATIONAL CLASSES TAKEN BY STUDENTS.

Please help us avoid duplication by not listing the same class in two or more places.

HOW MANY YEARS OF THE CLASSES LISTED BELOW HAVE YOU TAKEN IN EACH GRADE WHILE IN HIGH SCHOOL?

- (a) List in years as 1 or 2, etc.
- (b) If you have taken a one semester class list it as 1/2 year.
- (c) If you are enrolled in a class that meets for more than one hour, list as only one year.
- 11. What is the total number of years you have enrolled in the vocational
 type courses listed below _____ ?

		9th	<u> 10th</u>	<u>11th</u>	12th
12.	Vocational Agriculture	*********************	Andrew Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers and Strangers		
	If you have counted the class in agriculture above, don't count i	n Ag. Mecha It again be	anics unde	er vocation	nal
13.	Auto Mechanics			e de constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitution de la constitu	
14.	Carpentry or buliding construction		general constraints and the second	·	***************************************
15.	Wood Work	-		The second second	
16.	Welding, metal work or machine shop	Tringing difficulty and	************	erro de l'alconomia	-
17.	Drafting or mechanical drawing			Planting and the land	
18.	Electrical Wiring	***************************************	•	Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Compan	
19.	Electronics		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	and the same of the same	general de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la company
20.	D.E. Distribution & merchandisin of goods, usually work in store part time	g			
21-24	TOTALS FOR EACH GRADE (21-24 not used)				

PLEASE CHECK--HAVE YOU COUNTED THE SAME CLASS IN TWO PLACES?

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25.	For 11th and 12th graders only. If you have taken two or less classes above check one of the following that best indicates your reason for not having completed more classes.
	(1) Not offered in the school. (2) Has conflicted with the schedule. (3) Does not meet my educational or career objectives. (4) Do not like the teacher/s/. (5) I feel I have enough knowledge in the subject without taking the classes. (6) Decision of the parent.
26.	For 10th, 11th, 12th graders if you have taken or are now taking the above vocational type classes, check the one best reason for taking them.
	(1) Helps me in my educational or career objective and to obtain employment.
	(2)I like the teacher/s/,
	(3) Classes are easy and help my grade average.
	(4) The high school counselor advised me to enroll.
	(5) No special reason except I am interested.
	(6)Other, list
QUES ARE 27.	(1)Too fast or too hard for me (2)About right
20	(3) Too slow, I wish more were done
28.	The instruction and shop or class work is:
	(1)Important and I am learning something of real value to me (2)Waste too much time on unimportant jobs
29.	The tools, equipment, space for my projects and shop or class work is:
	 (1) Too limited and my progress is curtailed because of lack of them (2) Adequate tools and equipment to get the job done
30.	How do you rate your vocational teacher/s/ as to preparation for the classes and help given you to learn what you want to learn?
	(1)Very poor (2)Fair (3)Good (4)Excellent

(D)

31.	How do you rate the vocational classes you have taken or are taking as to their worth to you? (Think about this over a long period)
	(1) Very Poor (2) Fair (3) Good (4) Excellent
32.	How do you rate the length of classes or the time allowed for your vocational class work each week?
	(1) Too short to get enough done (2) About right to get work accomplished (3) Too long, as a result I get bored
more	se list <u>two</u> suggestions, if put into practice, would help you to benefit from your vocational type classes (be specific).
 34	
	III - STUDENT MOBILITY Where did you attend school in the following grades?
Name	of School State State
	10th Grade
	11th Grade
	12th Grade

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36.	Where do you believe you will be living approximately ten (10) years from now? (Please check only one)
	(1)In the same county in Nevada (2)In another county in Nevada (3)In California (4)In Utah, Idaho, Oregon, or Arizona (5)In another state then these listed
	(5) In another state than those listed
PART	IV - AMOUNT AND TYPE OF WORK EXPERIENCE OF THE STUDENT
37.	How much of the time are you employed or working for yourself or family during the <u>current school year?</u> (This does not include time on house-hold chores.)
	(1)After school during the week and most weekends(2)I did not work
38.	Where or for whom did you work the most last summer? (Check only one)
	 I did not work. I worked for my parents without receiving a definite wage I worked for a definite agreed upon wage from my parents I worked for someone other than my parents for a definite salary
39.	If you checked No. 4 above, how did you get your job? (Check only one) (By help means to tell about or was a factor in getting your job)
	(1) Vocational teacher helped me (2) Guidance counselor helped me (3) People at employment or labor security department helped me (4) Got my own job or parents or friends helped me
40,	Below are listed various types of businesses in Nevada according to the main functions or service provided. Please check where you worked or were employed the most during the last 12 months. (Check only one)
	 (1) I did not work (2) Agricultural production (farm or ranch work) (3) Business (supply, finance, sales, service station, restaurant, etc.
	(4) Mechanics or construction firm (as garage, mechanics helper, machinery dealer, etc.)
	(5) Off farm agricultural business or job (as sales and service of agricultural animals, crops, horticulture, or landscaping, machinery, or government work in land, fish and game, etc.)
	(6)Other

WAIT A MINUTE, DID YOU CHECK ALL QUESTIONS?

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41.	Were you visited at your place or work or emplo performance of your job during the last 12 mont if they apply)	yment relat hs? (Check	ive to the both 1 & 2
	(1)By my vocational teacher (2)By the guidance counselor (3)No one visited me (4)I did not work		
PART	V - STUDENT INTEREST IN CERTAIN VOCATIONAL CLAS	SES AND STU	DENT GRADES
	Please check your desire to enroll in the followhave already taken them check your desire to enclass. Assume they were available and it is pointhem.	roll in an	advanc@d
	Check each and every course separately.	I Am Interested	Not Interested
42.	Economics and management of a ranch or business		
43.	Leadership training, public speaking, Parliamentary Procedure, etc.		************************
44.	Management, care & breeding of livestock		
45. 1	Range management, soils and crops		#100-1900 100 TO 100 TO 100 TO 100 TO 100 TO 100 TO 100 TO 100 TO 100 TO 100 TO 100 TO 100 TO 100 TO 100 TO 100
46.	Veterinary medicine, sanitation and disease control		•
47.	Horticulture (landscape gardening, plant and flower growing, greenhouse and nursery)		
48.	Conservation, forestry, recreation, fish and wildlife		
49.	Welding: arc, acetylene, etc.		
50.	Gasoline and diesel engines		
51.	Auto body fender repair		
52.	Auto Mechanics (general)		
53.	Repair, operation, maintenance of tractors and heavy machinery		
54.	Building construction (carpentry, concrete and masonry)	CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR	
55.	Electrical wiring and plumbing		
56.	Machine shop and metal work		
57.	Electronics (radio, TV, data processing)		***************************************
58.	Sales (distribution and marketing of goods and service)		
59.	Culinary arts (food preparation meat cutting, baking, etc.)		

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PART	V - Continued	I Am Interested	Not Interested
60.	Office occupations (typing, accounting, bookkeeping, etc.)		
61.	Introduction to aeronautics	Appellusion of the Appellusion in the	
STOP	DID YOU CHECK EACH COURSE SEPARATELY?		
62.	Average grades in English and mathematics (Dete	rmined by chec	kers)
63.	What is your average grade in all of the Englis now taking or have taken?	h classes you	are
	$(1)A_{(2)B_{(3)C_{(4)D_{(5)F_{(6)Have not }}}}$	taken	
64.	What is your average grade in mathematics class	es?	
	(1)A(2)B(3)C(4)D(5)F(6)Have not		
65.	What are your average grades in Agricultural So Mechanics classes?	iences and Far	cm
	(1)A(2)B(3)C(4)D(5)F(6)Have not	taken	
66.	What are your average grades in Trades and Indugeneral shop, auto mechanics courses, etc.)	stry courses	(carpentry,
	$(1)A_{(2)B_{(3)C_{(4)D_{(5)F_{(6)Have not }}}}$	taken	
67.	What are your average grades in Distributive Ed Occupations classes?	lucation or Of	fice
	$(1)A_{(2)B_{(3)C_{(4)D_{(5)F_{(6)}}}}$	taken	
68.	Average grades in vocational classes (Determine	ed by the chec	kers)
(Inc	TION II - FATHER Clude real or stepfather the same as if he were pering all questions)	your n atural f	ather in
69.	Father's education (Check best one)		
	(1) College graduate (2) Two year college or trade school or ot (3) High School graduate (4) Less than high school graduation	her organized	school
70.	Where did your father receive his training for	his major emp	loyment?
	(1) College (2) Post high school, vocational, trade or (3) High school vocational program (4) On the job training (5) Military service	technical sch	1001
	(6) No special training (7) Deceased unknown or retired		
	the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		

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71.	Who does your father work for, for his major employment?
	(1) Owner or part owner and works for his own business (2) Employee, works for someone else (3) Retired, unknown, deceased
72.	How many jobs does your father presently hold?
	(1)Only one (2)T%o (3)Three or more
HOLD	IT! DID YOU ANSWER EVERY QUESTION?
73.	Which of the following vocations best describes what your father's actual work is? (Check only one) (TAKE YOUR TIME!)
	If you know the actual job, underline it.
	(1) Farming or ranching (production of crops, animals, plants, etc.) (2) Off farm agricultural business or job (as sales and service of agricultural animals, crops, horticulture, machinery, etc.) (3) Business (sales, distribution, merchandising of goods, insurance, real estate, service station, banking and finance, etc.) Service (dry cleaning, food service, motels, gaming, building maintenance, etc.)
	(4) Skilled trades (mechanic, electrician, plumber, machinist, carpenter, draftsman, etc.) Note: Usually requires special training for employment.
	(5)Transportation(truck driver, railroad, aviation, etc.) Construction or Mining or Utilities (highway, well drilling, power and telephone, etc. that requires a knowledge of various types of equipment.)
	Note: May or may not require special training before employment. (6) Technician (electronics, data processing, TV and radio repair, air conditioning and refrigeration, laboratory and health services, etc.)
	Note: Special technical training beyond high school required (usually 2 years or more), but less than college graduate. (7) Public service (law enforcement, military career, fireman, post office, barber, etc.) Note: Include in this group any job, public or private, that does not require a college degree that is not included in the above questions.
	QUESTIONS 8-9 ARE PROFESSIONS. THEY REQUIRE AT LEAST A COLLEGE DEGREE FOR EMPLOYMENT.
	(8) Forester, irrigation engineer, Bureau of Land Management, Fish and Game, veterinary science, agricultural research, agricultural extension, etc.
	(9) Teaching, medicine, law, civil engineer, accountant, research chemist, physicist, mass media communications, social or public worker, minister. (Include any job not listed that requires a college degree)
	Other: If not included, please list:

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SECTION III - BROTHER'S EMPLOYMENT WHO IS OUT OF HIGH SCHOOL (Fill out a separate sheet for each brother out of high school) How many brothers do you have out of high school? Brother's name 74. What is your brother's age? 75. Did your brother graduate from high school? (1) 17 to 19 (out of high (1) Yes school) (2) 20-23 (2) No (3) I don't know (3)24-27 28 and Over (4) I don't know and won't (5) guess 77. If he is employed full or part What is your brother doing now? time or he is unemployed where does (check only one) he live? College At home (with parents) Military Service (2) In same county but not Employed full-time (3) at home Employed Part-time (4) In another county in Nev. (5) Unemployed In another state than Nev. 78. Where did your brother receive his training for his major employment? Post high school, vocational, trade or technical school (2) High school vocational program (3) On the job training No special training If your brother is employed full or part time which best describes your brother's principal employment? (Check only one, TAKE YOUR TIME) If you know the actual job, underline it. Farming or ranching (production of crops, animals, plants, etc.) (2) Off-farm agricultural business or job (as sales and service of agricultural animals, crops, horticulture, machinery, etc.) Business (sales, distribution, merchandising of goods, insurance, real estate, service station, banking and finance, etc.) Service (dry cleaning, food services, motels, gaming, building maintenance, etc.) (4) Skilled trades (mechanic, electrician, plumber, machinist, carpenter, draftsman, etc.)

Note: Usually requires special training for employment.

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- (5) Transportation (truck driver, railroad, aviation, etc.)

 Construction or Mining or Utilities (high way, well drilling, power and telephone, etc. that require a knowledge of various types of equipment.)

 Note: May or may not require special training before employment.
- (6) Technician (electronics, data processing, TV and radio repair, air conditioning and refrigeration, laboratory and health services, etc.)

 Note: Special training beyond high school required (Usually two years or more), but less than college graduate.
- Office, barber, etc.)

 Note: Include in this group any job, public or private, that does not require a college degree that is not included in the above questions.

QUESTIONS 8-9 ARE PROFESSIONS. THEY REQUIRE AT LEAST A COLLEGE DEGREE FOR EMPLOYMENT.

- (8) Forester, irrigation engineer, Bureau of Land Management, Fish and Game, veterinary science, agricultural research, agricultural extension, etc.
- (9) Teaching, medicine, law, civil engineer, accountant, research chemist, physicist, mass media communications, social or public worker, minister. (include any job not listed that requires a college degree in this group.)

Other: If not included above please list:

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Completed by the Counselor or Principal

INFORMATION OBTAINED FROM EACH COOPERATING SCHOOL IN REFERENCE TO THEIR VOCATIONAL PROGRAMS

Name of School	
Total Number of Boys In	Number Filling Out Survey
9th Grade	
10th Grade	
llth Grade	
12th Grade	
Total	
Number of Brothers	
Students with one brother	
Two brothers	
Three or more	
Total	
	OUNSELING
pose of teaching students about they will require for employments	r course taught by the counselor for the purut the various occupations and the training ent?
(1) YesNo	•
	e)?
(3) What grades enroll?	
Number of vocational teachers	teaching mainly boys
Number of guidance counselors	in the school
	as vocational counselors
	aduating class last year started college?
	starting 4 years ago graduated last spring?
	given for each one hour vocational class
meeting five days a week?	

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The information below is necessary as a check against the student's papers. This is important to help us limit duplication.

Complete the following for each grade below.

- (1) What is the maximum number of years any one student can complete the following courses in each grade? (No. 12 add total)
- (2) What is the length of class time for each grade?
- (3) For each grade, list the number of vocational courses a typical vocational student will take. (No. 13 below)

			9th Time		Oth Time		1th Time		2th Time
(1)	Vocational Agriculture	******	جيبو الوار المتواطعة	***************************************					
	If you have counted the class in ture above, don't count it again	Ag. belo	Mecha	anics	unde	r voc	ationa	al ag	ricul
(2)	Auto Mechanics								
(3)	Carpentry or building const.						***************************************		***************************************
(4)	Wood Work			***************************************	-	-		-	
(5)	Welding, Metal work				***************************************	***************************************	***************************************	***************************************	***************************************
(6)	Drafting or Mech. Drawing		-		***************************************	***************************************	***************************************	-	
(7)	Electrical wiring	***************************************	-	***************************************	***************************************		************		
(8)	Electronics		***************************************				-	-	***************************************
(9)	Surveying		•	***************************************			***************************************		
(10)	D.E. Distribution & Merch. of Good			Printed and the second	-	***************************************			-
(11)	Other vocational type courses	as				***************************************		-	
•									
			************	***************************************	***************************************		With the second	-	************
12)	Maximum each grade		-	***************************************	**************************************		ttermeter.	***************************************	
13)	Typical for each grade								

